



## PROGRAM

# 8th IBRO WORLD CONGRESS OF NEUROSCIENCE

International Brain Research Organization

Florence - Italy  
July 14 - 18, 2011



1861 - 2011 50

The 8th IBRO World Congress has been awarded in the  
category of events related to the Celebrations of the  
100th Anniversary of the Unification of the Italian State.

[www.ibro2011.org](http://www.ibro2011.org)

**8<sup>th</sup> IBRO**  
**WORLD CONGRESS OF**  
**NEUROSCIENCE**

International Brain Research Organization

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## WELCOME ADDRESS

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On behalf of the Organizing Committee, I have the pleasure of welcoming you to the 8th World Congress of the International Brain Research Organization (IBRO). IBRO was incorporated in 1961 and therefore this meeting marks its 50th Anniversary. IBRO now counts 84 member societies in 61 countries around the globe with a membership of over 75.000 neuroscientists and this meeting intends to provide a living expression of its mission, the promotion of neuroscience and communication between brain researchers around the world, with special emphasis on assisting young investigators in the developing world.

Also thanks to the response by world neuroscientists to the call for Symposia, the scientific committee has been able to put together a program at the cutting-edge of current research in neuroscience. The meeting can be synthesized by the following figures: 10 Plenary Lectures, 20 Symposia, 40 Workshops, 14 Special Events, 7 Special Workshops.

The meeting also includes a special workshop on the history of Italian Neuroscience and a Joint meeting between the host Society, the Italian Society of Neuroscience, and the French Society of Neuroscience.

The Renaissance architecture of the Fortezza da Basso will provide the meeting with a stage perfectly consonant with the city of art that hosts the meeting, Florence.

Now, enjoy the meeting and your stay in Florence.

***Gaetano Di Chiara***

## COMMITTEES

### ORGANIZERS

The congress is organized by:

#### The International Brain Research Organization (IBRO)



#### The Italian Society of Neuroscience (SINS)



### IBRO

#### President

Carlos Belmonte - Alicante (SPAIN)

#### Secretary - General

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Domenico E. Pellegrini-Giampietro - Florence (ITALY)

Alfonso Tortorella - Naples (ITALY)

#### Executive Secretary and Treasurer

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#### President

Gaetano Di Chiara - Cagliari (ITALY)

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#### Treasurer

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#### Executive Secretary

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Fabrizio Benedetti - Turin (ITALY)

Caterina Bendotti - Milan (ITALY)

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Fulvia Bongiani - Florence (ITALY)

Giorgio Carmignoto - Padua (ITALY)

Alberto Chiarugi - Florence (ITALY)

Laura Gasparini - Genoa (ITALY)

Guido Mannaioni - Florence (ITALY)

Roberto Melcangi - Milan (ITALY)

Diego Minciacchi - Florence (ITALY)

Antonio Pisani - Rome (ITALY)

Ferdinando Rossi - Turin (ITALY)

Antonella Scorziello - Naples (ITALY)

### INTERNATIONAL PROGRAM COMMITTEE

#### Chairperson

Fabio Benfenati - Genoa (ITALY)

#### Members

1 - NERVOUS SYSTEM DEVELOPMENT & DEVELOPMENTAL DISORDERS

Roberto Lent – Rio de Janeiro (BRAZIL)

2 - AXONAL GUIDANCE, SYNAPTIC FORMATION & TROPHIC FACTORS  
Shumin Duan – Hangzhou (CHINA)

3 - GLIA

Phil Haydon – Boston (USA)

4 - STEM CELLS: NEURAL INJURY & REPAIR

Anders Björklund – Lund (SWEDEN)

5 - NEUROGENETICS

Guy A. Rouleau – Montréal (CANADA)

6 - EXCITABLE MEMBRANES & ION CHANNELS

Ramon Latorre – Valparaiso (CHILE)



## COMMITTEE

### 7 - SYNAPTIC TRANSMISSION & SIGNAL TRANSDUCTION

Yukiko Goda – London (UK)

### 8 - NEURAL PLASTICITY

Zoltán József Nusser – Budapest (HUNGARY)

### 9 - NEUROENDOCRINE & AUTONOMIC REGULATION

Anne Etgen – New York (USA)

### 10 - PAIN

Catherine Bushnell – Montreal (CANADA)

### 11 - SENSORY SYSTEMS

Donata Oertel – Madison (USA)

### 12 - MOTOR SYSTEMS

Alexa Riehle – Marseille (FRANCE)

### 13 - LEARNING AND MEMORY

May-Britt Moser – Trondheim (NORWAY)

### 14 - COGNITION & EMOTION

Faraneh Vargha-Kathem – London (UK)

### 15 - NEURODEGENERATION & AGING

Maria G. Spillantini – Cambridge (UK)

### 16 - NEUROLOGICAL DISORDERS

Roger P. Simon – Portland (USA)

### 17 - PSYCHIATRIC & BEHAVIOURAL DISORDERS

Nora Volkow – Bethesda (USA)

### 18 - NEUROINFORMATICS & COMPUTATIONAL NEUROSCIENCE

Yoko Yamaguchi – Wako City (JAPAN)

### 19 - NEUROELECTRONICS & NEUROROBOTIC INTERFACES

Hirokazu Takahashi – Tokyo (JAPAN)

### 20 - HISTORY, TEACHING, NEUROETHICS, AWARENESS & SOCIAL IMPACT

Gordon Shepherd – New Haven (USA)

## YOUNG INVESTIGATOR VISITING PROGRAM COMMITTEE

### Chairperson

Micaela Morelli - Cagliari (ITALY)

### Members

Marina Pizzi - Brescia (ITALY)

Laurent Fagni - Montpellier (FRANCE)

## SECRETARIATS

### ORGANIZING SECRETARIAT

Newtours S.p.A.

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Florence - ITALY

Phone: +39 055 3361.1

Fax: +39 055 3033.895

E-mail: [ibro2011@newtours.it](mailto:ibro2011@newtours.it)

[www.newtours.it](http://www.newtours.it)



### SCIENTIFIC SECRETARIAT

Domenico E. Pellegrini-Giampietro

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University of Florence

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Phone: +39 055 4271.205

Fax: +39 055 4271.280

E-mail: [domenico.pellegrini@unifi.it](mailto:domenico.pellegrini@unifi.it)

### Under the patronage of:



*Università degli Studi di Firenze*



# PROGRAM

8th IBRO  
WORLD CONGRESS OF NEUROSCIENCE

International Brain Research Organization

Florence - Italy - July 14 - 18, 2011

www.ibro2011.org

## ACKNOWLEDGEMENTS

The Congress Organisers gratefully acknowledge support received from all exhibitors and the following sponsors:

ACS Chemical  
Neuroscience

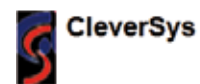
CANE  
MEDICAL TECHNOLOGY



END  
Evénement des  
Neurosciences  
Paris - Bordeaux - France



The Congress Organisers would like also to thank the following sponsors for contributions to Symposia and Workshops:





## GENERAL INFORMATION

### Congress venue

Fortezza da Basso  
Viale Filippo Strozzi 1 - 50129 Florence - Italy  
Tel: +39 055 4972301

### Opening hours of registration desk

Thursday, July 14	09:00-19:30
Friday, July 15	08:00-18:30
Saturday, July 16	08:00-18:30
Sunday, July 17	08:00-18:30
Monday, July 18	08:00-18:30

### Official language

The official language of the congress is English.

### Badges

Each participant may collect the badge at the registration desk. Participants are kindly requested to wear their badge during all congress activities and social events.

No color:	Participants
Red color:	Speakers and Chairpersons
Orange color:	Exhibitors
Blue color:	Committees and staff
Green color:	Accompanying persons

### Certificate of attendance

A certificate of attendance is available at the registration desk for all participants that will require it.

### Projections

PowerPoint projection is available in all meeting rooms. Speakers must load their presentation in the Slide center (first floor) at least three hours before the beginning of their session (or, if their session starts at 8:30, by 16:00 on the previous day).

The opening hours of the slide center are:

Thursday, July 14	12:00-18:30
Friday, July 15	08:00-18:30
Saturday, July 16	08:00-18:30
Sunday, July 17	08:00-18:30
Monday, July 18	08:00-18:30

### Posters

There are four sessions of poster presentations: A (Friday, July 15), B (Saturday, July 16), C (Sunday, July 17) and D (Monday, July 18). Posters will be in display in the exhibition area for the whole day. **Posters will be attended by the Presenting Author from 11:40 to 14:15 on each day.**

Posters should be placed on the boards from 9:30 on each day and removed by 17:30. No responsibility will be taken for posters which are left behind. The poster boards are numbered and adhesive material will be available at each board (please do not use drawing pins or thumbtacks). **The number of the abstract corresponds to the number of the poster panel.**

The Posters for **Topic 20 (History, teaching, neuroethics, awareness & social impact)** will be on display for the entire period of the congress (from Friday, July 15 to Monday, July 18) and will be attended by the Presenting Author from 11:40 to 14:15 on the first day, Friday, July 15.

The poster board size is 150 cm high and 90 cm wide.

**Italian Society of Neuroscience (Young Investigator Visiting Programme) Poster Prize:** The best posters by participants from low-income countries will be selected each day by a Selection Committee and awarded at the late afternoon Plenary Lecture at 17:30 of each day.

### Internet connection

Free wifi internet access is available in the ground and first floor of the Pavilion A. Internet point stations are available in the exhibition area (see the floorplan).

### Currency / banks / exchange

Italy's national currency is the Euro (€). Exchange is provided by banks and exchange agencies. Banks are open Monday to Friday from 08:00 / 08:30 to 13:00 / 13:30. They are also open in the afternoon, usually from 14:30 / 15:00 to 16:00 / 16:30.

A bank office is available in the Pavilion A, ground floor (see the floorplan).

### Electrical current

The electrical current in Italy is 220 volts 50 Hz.

### Climate

The average temperature in Florence in July is 18° Celsius (64,4 F) / 31° Celsius (87,8 F). Air conditioning is provided in the Congress Center Fortezza da Basso.



## TOURIST TOURS

At the "Social program and tours" desk for tourist tours can be purchased on a "first come first served" basis.

List of available tours:

### Half day tours

#### City center - half day on foot

**Thursday, July 14 from 09:30 to 12:00**

The 11th century Baptistery and its famous "Doors of Paradise", the Cathedral of Santa Maria del Fiore (il Duomo), with its famous dome raised by Filippo Brunelleschi, and Giotto's 14th century bell-tower (il Campanile) are the most outstanding monuments in the Cathedral Square and create the religious center of the city.

The political center is on the other end the Signoria Square with the Palazzo Vecchio, which is the Town Hall of Florence.

Quite impressive is the incredible series of original statues (Perseus, Neptune, the Rape of the Sabines, etc.) which stands here, so that the square can be considered an open air museum.

Ponte Vecchio, with all its famous jewellery stores, is one more world famous monument of Florence. It's the only bridge which is still original and dates back to the 14th century.

From Ponte Vecchio one of the main streets leads to the Piazza della Repubblica, which is a more recent square created in the 19th century, at the time when Florence was the capital of Italy, where the center of the ancient Roman colony of Florentia used to be. Many of Florence's outdoors cafés are located on this square.

**Euro 30,00 per person**

#### Florentine hills - half day by bus

**Friday, July 15 from 14:30 to 17:30**

Piazzale Michelangelo, located along the "Avenue of the Hills" provides an unforgettable view of the city but the view one can enjoy from San Miniato Church is even more enchanting. This church, with its green and white marble facade, is one of the most important examples of Florentine Romanesque architecture, surrounded by the typical Tuscan countryside. On the hills overlooking Florence to the north, the small historical town of Fiesole, of Etruscan origin, later a Roman town, provides a marvellous and truly exhilarating panorama of Florence, the Arno river valley and the Tuscan hills.

**Euro 40,00 per person**

#### Pitti Palace - half day on foot

**Sunday, July 17 from 10:00 to 12:00**

The Pitti Palace was the third and last - really sumptuous - residence of the Medici Family.

It was later on the residence of the Austrian Grand Dukes and of the Kings of Italy, so that it became richer and richer in decoration and a model for the European royal palaces.

Fully furnished and lavishly decorated, it's also the seat of the Palatine Gallery, with masterpieces by Raffaello, Tiziano, Rubens, and other great masters, and of the Royal Apartments.

**Euro 45,00 per person**

#### The Academy Gallery - half day on foot

**Saturday, July 16 from 16:00 to 18:00**

Michelangelo's David is one of the most admired statues in the world. Thousands of people every day visit the magnificent hall which was purposely built for this masterpiece in order to emphasize its beauty. In the same museum there are some other impressive works by the great master, such as his unfinished statues called the Captives. The Academy Gallery houses furthermore an interesting selection of 13th - 16th century paintings and an important collection of ancient musical instruments.

**Euro 42,00 per person**

#### The Uffizi Gallery - half day on foot

**Thursday, July 14 from 16:00 to 18:00**

**Saturday, July 16 from 16:00 to 18:00**

**Sunday, July 17 from 16:00 to 18:00**

The Uffizi Gallery is one of the greatest museums in the world. It was founded in 1581 by Francesco I de' Medici, who collected numerous art-works in the building designed by Vasari. Today the Uffizi contains masterpieces by Italian and foreign artists from 13th to 18th century such as Cimabue, Giotto, Masaccio, Beato Angelico, Leonardo da Vinci, Botticelli, Michelangelo, Piero Della Francesca, Raffaello, Caravaggio, along with Rubens, Rembrandt, Durer, Goya and many others.

**Euro 42,00 per person**



## TOURIST TOURS

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### Full day tours

#### Chianti area - full day by bus

**Friday, July 15 from 09:30 to 17:00**

A relaxing drive through the Chianti wine area amidst lovely, ever changing scenery of vine clad hills, dotted with olive and cypress trees, little country churches, farmhouses, villas and castles, gives the opportunity to see one of the most suggestive areas of Tuscany, known all over the world.

A stop in one of the best Chianti wine estates will give the possibility to taste the local wines with country snacks and to visit the wine cellars

**Euro 98,00 per person**

#### Siena and San Gimignano - full day by bus

**Monday, July 18 from 08:30 to 18:00**

Drive through the Chianti wine area amidst lovely, ever changing scenery of vine clad hills and olive groves to Siena, medieval town situated on the hillside between the Arbia and Elsa rivers, birthplace of St. Catherine and many famous artists. Visit the Cathedral, the Campo Square with the Town Hall, the Church of San Domenico and observe other fine specimens of medieval architecture. On the way home visit San Gimignano, a charming little town perched on a hilltop and preserved almost intact since the Middle Ages, with its famous towers, precious frescoes and other art treasures. Lunch in a typical restaurant in Siena.

**Euro 110,00 per person**

#### Pisa and Lucca - full day by bus

**Saturday, July 16 from 08:30 to 18:00**

Pisa, located on the river Arno, a few kilometers inland, is famous for its "Piazza dei Miracoli", with the Cathedral, the Leaning Tower, the Baptistery, the Camposanto, a monumental complex and one of the greatest examples of Romanesque architecture and sculpture. It is one of the most beautiful places in Italy: its splendid buildings with their rational and spacious layout rise proudly from the grass lawns. The tour continues to Lucca with its suggestive city walls, the Cathedral, the Church of San Frediano and its "Piazza del Mercato", a square which has kept the original oval shape of the ancient Roman amphitheater. Lunch in a typical restaurant in Lucca.

**Euro 105,00 per person**

## SOCIAL PROGRAM

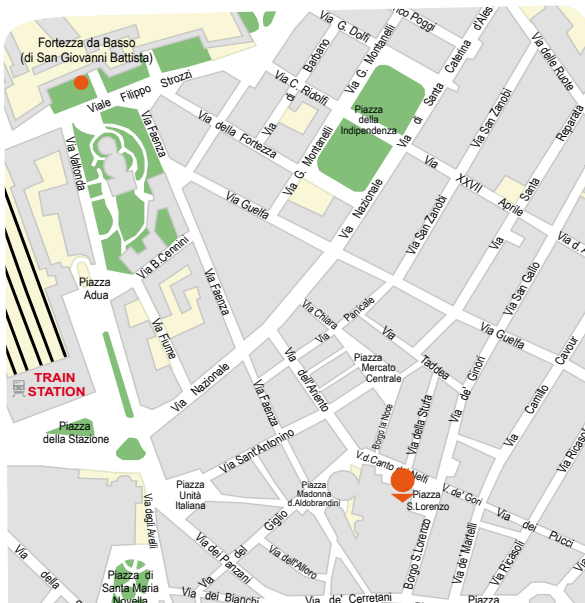
### Welcome reception

Thursday, July 14

A Welcome Reception will be held after the Opening ceremony, and will be free of charge for registered participants and accompanying persons.

### Organ concert in the Basilica of San Lorenzo

Saturday, July 16, at 20:00



An organ concert of approximately 45 minutes will be held in the famous Basilica of San Lorenzo for a limited number of participants. Reservations will be accepted on a “first come first served” basis.

Remaining tickets will be sold at the “Social program and tours” desk.

**Please do not forget to present your ticket at the entrance.**

Cost of the ticket: Euro 12,00 per person.

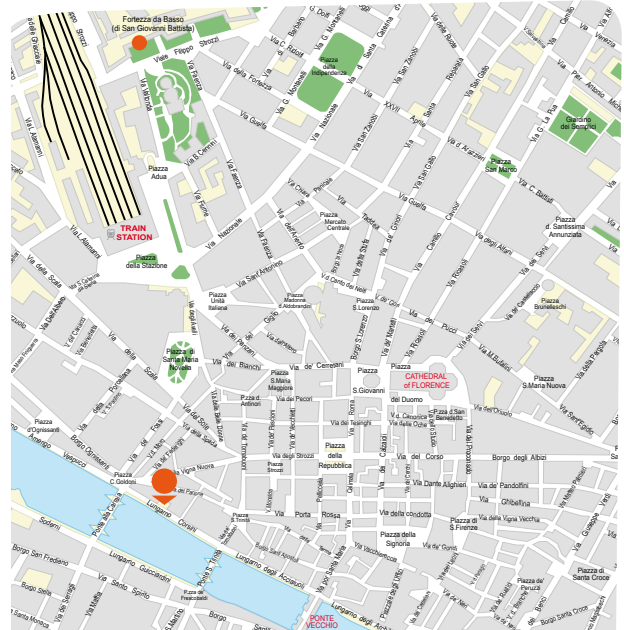


Please remember that bare shoulder and/or shorts are not allowed inside churches.

### Social dinner

Sunday, July 17, at 20:30

Palazzo Corsini - Lungarno Corsini 10



A seated Social Dinner will be held in the famous Palazzo Corsini in the downtown area of Florence.

Limited number of participants. Reservations are accepted on a “first come first served” basis.

Remaining tickets will be sold to the “Social program and tours” desk until Sunday, July 17 at 10:30.

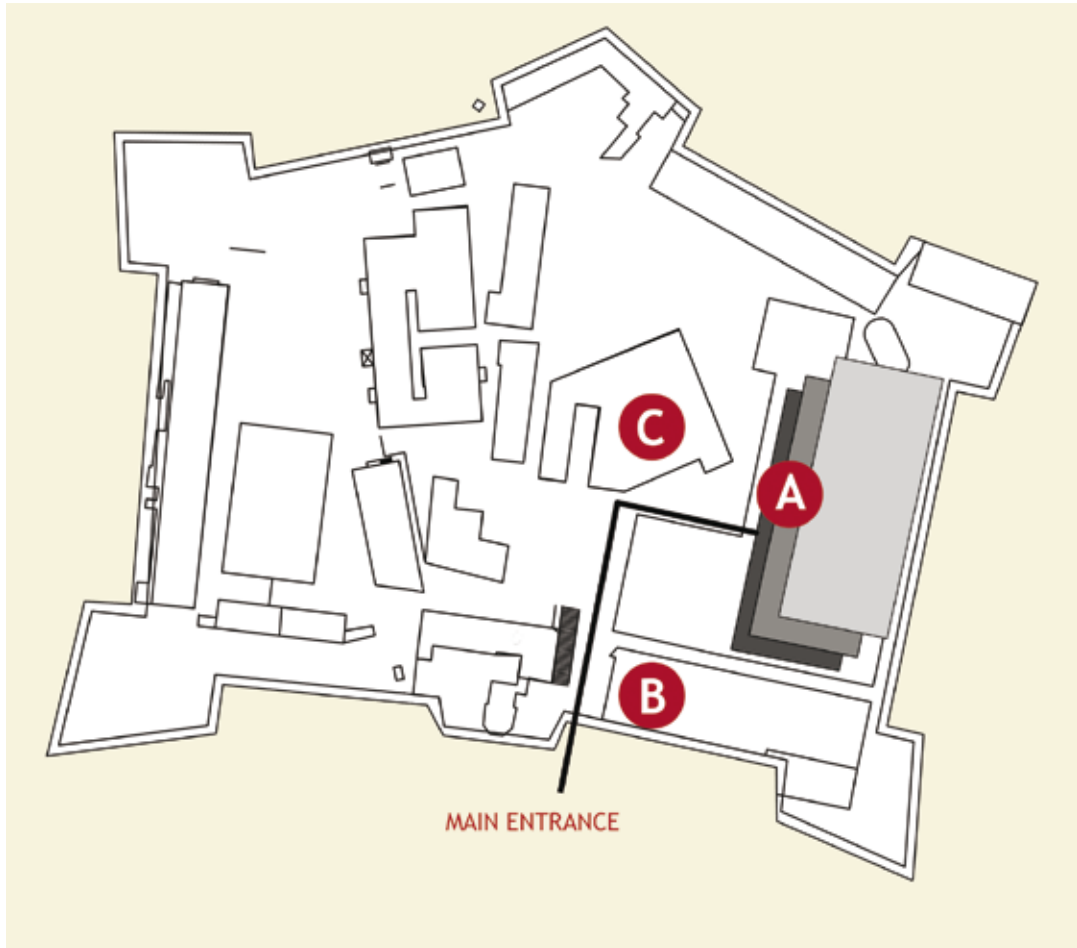
**Please do not forget to present your ticket at the entrance.**

Cost of the ticket: Euro 88,00 per person.



## CONGRESS FLOORPLANS

### FORTEZZA DA BASSO



#### PAVILION A

##### Ground floor

- Bar
- Cloakroom
- Exhibition area
- Internet point
- Poster area
- Poster information
- Promotional area
- Registration area

##### First floor

- Room Vittorio Emanuele II
- Room Garibaldi
- Room Mazzini
- Room Cavour
- Slide center

#### PAVILION B

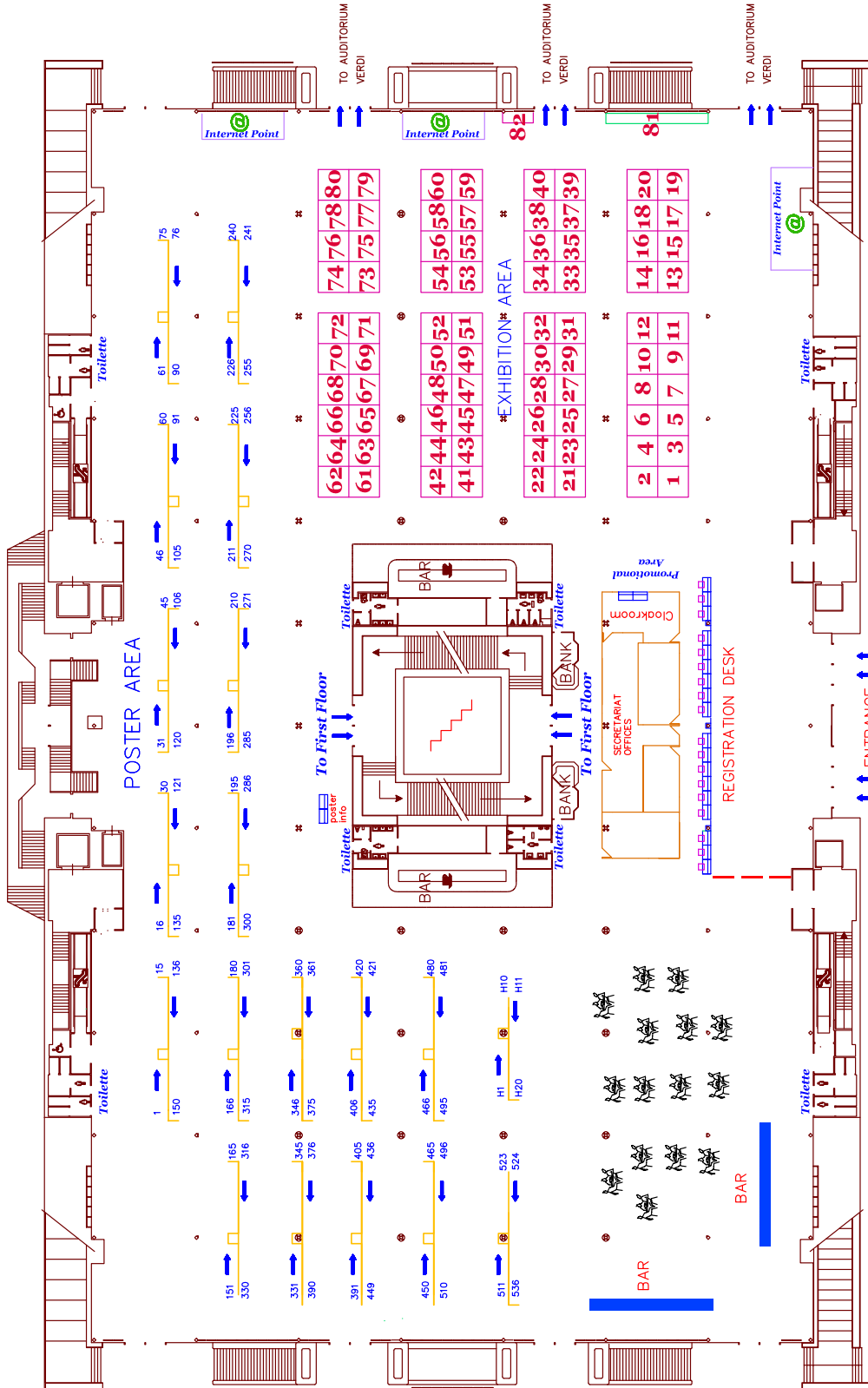
Auditorium Verdi

#### PAVILION C

- IBRO office
- IBRO meeting room
- Press office
- Press room

### CONGRESS FLOORPLANS

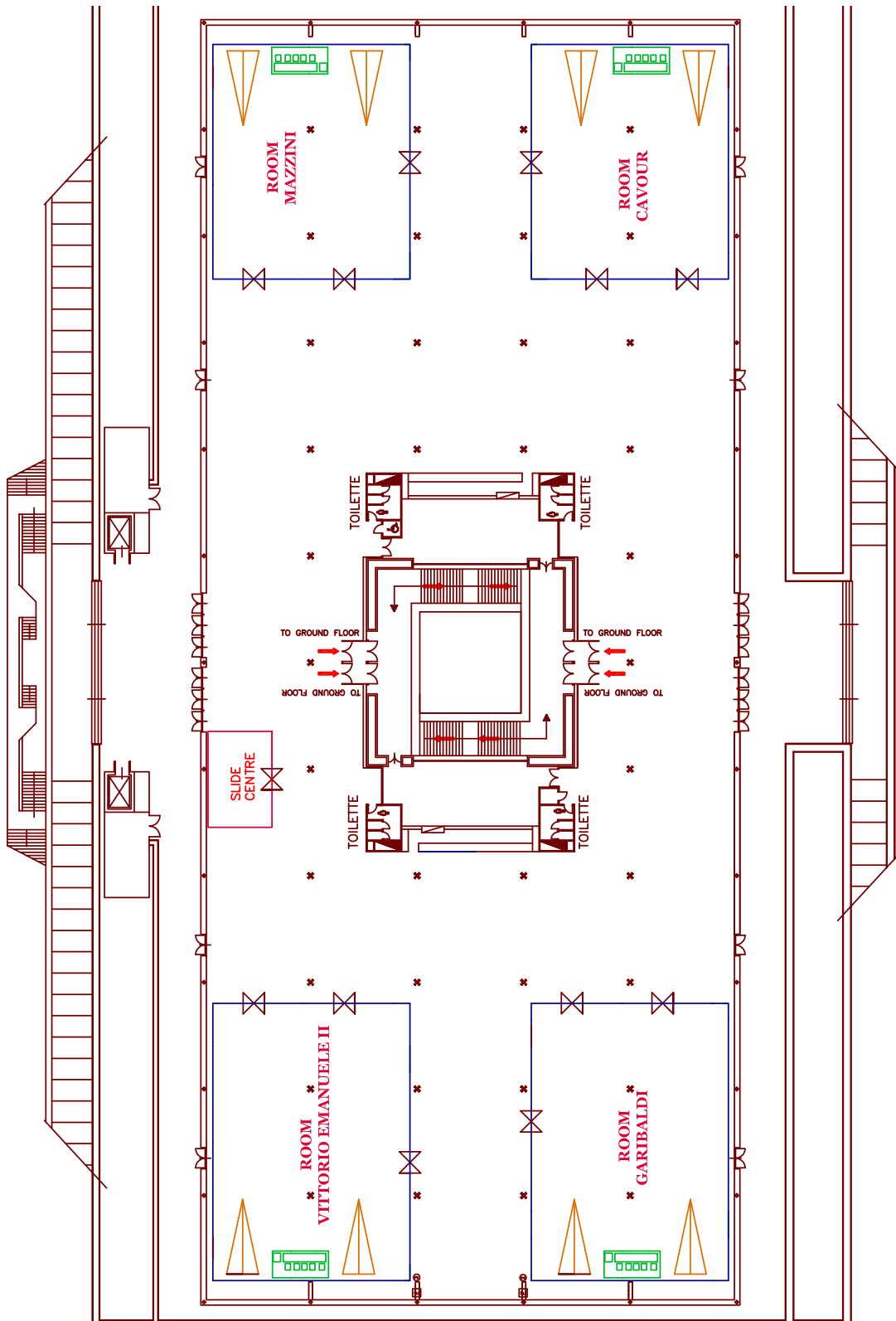
#### PAVILION A - Ground floor





## CONGRESS FLOORPLANS

### PAVILION A - First floor



## EXHIBITION

### List of exhibitors

Company	Booth no.	Company	Booth no.
Abcam	42	NeuroNexus Technologies	24
Actual Analytics	45	Nikon Instruments S.p.A.	13
Advanced Targeting Systems, Inc.	12	Noldus Information Technology	79
Allen Institute for Brain Science	30	Novus Biologicals	43
Alpha MED Scientific Inc.	69	Npi Electronic GmbH / ALA Scientific Instruments	72
Alpha Omega	71	Panlab Harvard Apparatus	15/17
ANY-maze (Europe)	78	Perimed AB - Sweden	26
Ascent Scientific Ltd.	76	PhenoSys GmbH	57
Bitplane	75	Phoenix Europe GmbH	74
Blackrock Microsystems	38	Pinnacle Technology Inc.	48
Blue Box Sensors	68	Plexon Inc.	53
Brains On-Line	46	Proteintech Europe	59
CMA Microdialysis AB	63	R&D Systems Europe Ltd.	11
Data Sciences International	21	Royal Society Publishing	33
24 <sup>th</sup> ECNP Congress, 3-7 September 2011, Paris, France	28	Science / AAAS	54
Elsevier	31/32	Scientifica Ltd.	62
Enzo Life Sciences	3	Society for Neuroscience	56
Experimetria Ltd.	19	Springer	39
FD NeuroTechnologies, Inc.	5	STEMCELL Technologies Inc.	47
Femtonics Ltd.	14	The Brain Prize	52
(FENS) Federation of European Neuroscience Societies	55	Thermo Scientific	4/6
Gatan	34	Thomas RECORDING GmbH	66
Harlan Laboratories	77	TILL Photonics GmbH	73
International Neuroinformatics Coordinating Facility (INCF)	35	Tobii Technology	20
Jackson ImmunoResearch Europe Ltd.	61	Tocris Bioscience	70
Janvier	23	TSE Systems GmbH	71
Kleindiek Nanotechnik GmbH	80	Tucker-Davis Technologies	40
Leica Microsystems	1/2	Ugo Basile SRL	60
Luigs & Neumann Feinmechanik & Elektrotechnik GmbH	41	Viewpoint	27
MicroProbes for Life Science	50	VisualSonics	10
Miltenyi Biotec	22	Wiley-Blackwell	65/67
The Mit Press	82	Wisepress Bookshop	81
Multi Channel Systems MCS GmbH	64		
NAN Instruments	51		
nanoTherics Ltd. - High Performance Transfection Products	9		
Neuralynx Inc.	44		



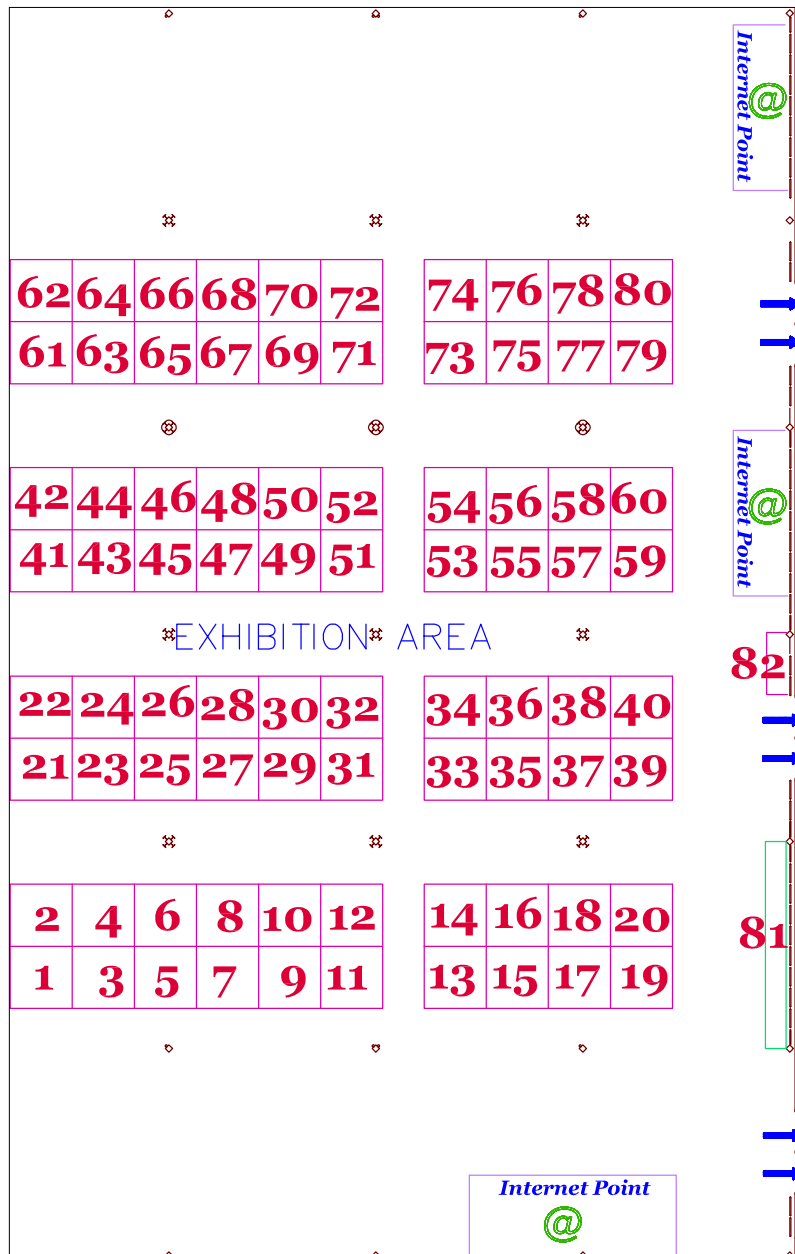
## EXHIBITION

### Exhibition hours

The exhibition will be open in the following days:

Thursday, July 14	from 15:00 to 20:30
Friday, July 15	from 09:30 to 17:30
Saturday, July 16	from 09:30 to 17:30
Sunday, July 17	from 09:30 to 17:30
Monday, July 18	from 09:30 to 17:30

### EXHIBITION FLOORPLAN





## COMPANY PROFILES

### **Abcam plc** 42

330 Cambridge Science Park  
Cambridge CB4 0FL, UK  
Tel: +44 1223 696000  
Fax: +44 1223 771600  
website: www.abcam.com  
Contact person: Aris Krikelis  
email: Aris.krikelis@abcam.com

Abcam is a producer and distributor of high quality research-grade antibodies and associated proteomics research products, serving a global customer base of over 75 countries. Our online catalogue consists of tens of thousands of products, supported by hundreds of thousands of pages of accompanying data. This includes a growing range of non-antibody products such as proteins, peptides, lysates, immunoassays, and kits. Abcam has over 19,000 neuroscience-related products in research areas including neuropharmacology, neurotransmission, cell adhesion, neuronal differentiation and many more.

### **Actual Analytics Ltd.** 45

Suite 7:11  
Appleton Tower, 11 Chrischton street  
Edinburgh, EH8 9LE, UK  
Tel UK: 0844 812 4495  
Tel US: +1 866 697 8154  
Tel INT: +44 131 208 3934  
Email: getintouch@actualanalytics.com

Actual Analytics provide behaviour analysis solutions for scientists. We are committed to creating high quality, accurate and easy to use solutions that our customers can depend upon. Actual Track is the world's first online behaviour analysis solution, and provides affordable, easy-to-use and accurate scoring and automated tracking solutions to you, anywhere at anytime through your internet browser.

### **Advanced Targeting Systems, Inc.** 12

10451 Roselle Street #300  
San Diego, CA 92121, United States  
Tel: +1 858 642 1988  
Fax: +1 858 642 1989  
website: www.ATSBio.com

Advanced Targeting Systems, "the saporin people," provides quality targeting reagents for molecular surgery: the specific elimination of cells to examine the impact on behavior and/or disease states. The product line includes targeted toxins and antibodies. ATS also has second conjugates that let researchers create their own specific targeting tools and are particularly useful in antibody screening for internalization.

### **ALA Scientific Instruments, Inc.** 72

60 Marine Street  
Farmingdale, NY 11735, United States  
Tel: +1 631 393 6401  
Fax: +1 631 393 6407  
website: www.alascience.com  
email: sales@alascience.com

Choosing the right components for demanding applications requires knowledge of instruments and science. As manufacturers (fluidics, chambers, perfusion systems, etc.) and distributors (MultiChannel, npi, HEKA, Sutter, Narishige, Burleigh, Kinetic Systems, TMC and more) of instruments for patch/cellular and multielectrode electrophysiology, our scientists/engineers have decades of experience assembling systems and building custom setups. We focus on your equipment needs so you can focus on your research. Come talk to our experts!

### **Allen Institute for Brain Science** 30

551 North 34th Street, Seattle, WA 98103, United States  
Tel: +1 206 548 7000  
website: <http://alleninstitute.org/> AND <http://www.brain-map.org/>  
Contact person: Kelly Overly, Associate Director Communications  
IBRO onsite contact: Terri Gilbert  
email: KellyO@alleninstitute.org

The Allen Institute for Brain Science, a nonprofit medical research organization, accelerates understanding of the human brain by fueling discovery across the global scientific community. To this end, the Institute generates innovative public resources and drives technological and analytical advances.

### **Alpha MED Scientific Inc.** 69

209, 7-7-15, Saito-asagi  
Ibaraki, Osaka, 567-0085, Japan  
Tel: +81 72 648 7973  
Fax: +81 72 648 7974  
website: www.med64.com  
Contact person: Rika Yamazaki  
email: info@amedsci.com

Our MED64 multi-electrode array system is a powerful solution for in-vitro extracellular recording. Signals are acquired simultaneously across 64 planar microelectrodes patterned on the MED probe. Stimulation can be applied through any electrodes on the MED probe. It is suitable for recording from acute slices as well as slice or dissociated cultures. Its market's lowest-impedance electrodes enable to achieve low-noise and high signal to noise ratio. Due to its easy-to-use and high data-reproducibility the MED64 t is used well for drug test. We are happy to introduce our new product, which enables to record from 8 samples in the exhibition.

### **Alpha Omega** 71

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website: www.alphaomega-eng.com  
Contact person: Yousef Bsoul  
email: y.bsoul@alphaomega-eng.com

In 1993, Alpha Omega was established as a small engineering firm by Mr. Imad Younis, based in the biblical city of Nazareth. From those humble beginnings, our organization has grown into a global company offering a plethora of pioneering products for our clients with consistent innovation and uncompromising quality. Since our inception, our team of experts has been dedicated to finding leading - edge solutions in the world of Functional Neurosurgery and Neuroscience with unrelenting focus and drive. Almost two decades and nearly 500 satisfied clients later, our



## COMPANY PROFILES

organization continues with this same mission and determination in mind. Year after year, Alpha Omega has managed to consistently maintain its leadership status in the industry, due to our continuous communication and collaboration with our clients. It is this collaboration and our listening ear, which provides us with the necessary knowledge to constantly innovate and improve our product line. We constantly strive to discover new applications and enter new and untouched frontiers in medicine and neuroscience.

One of the main goals at Alpha Omega is not only to remain at the forefront of innovation by making better technology, but also "smarter" technology - technology that address the true needs of doctors and scientists with ease of use, robustness, reliability, and added functionality.

### **ANY-maze (Europe)** **78**

Ground floor, Hilton House  
3 Ardee Road, Rathmines  
Dublin 6, Ireland  
Tel: +353 1 524 2200  
Fax: +353 1 443 0784  
website: [www.stoeltingeurope.com](http://www.stoeltingeurope.com)  
email: [anymaze@stoeltingeurope.com](mailto:anymaze@stoeltingeurope.com)

ANY-maze is Stoelting's behavioural tracking software that has become the standard by which other software is measured. ANY-maze is backed by comprehensive technical support and can be used to track literally any animal anywhere (details at [www.ANYmazeEurope.com](http://www.ANYmazeEurope.com)). We also offer a complete selection of mazes, accessories and behaviour instruments. At ANY-maze, we are proud of our tradition of innovation, and have a strong commitment to support scientific research. We seek to offer only high quality, reliable software & instruments, and support them with prompt, educated customer service from our staff of science professionals.

### **Ascent Scientific Ltd.** **76**

Unit 3, Avon Riverside Estate  
Victoria Road, Avonmouth  
Bristol BS119DB, UK  
Tel: +44 117 982 9988  
Fax: +44 2030 700 369  
website: [www.ascentscientific.com](http://www.ascentscientific.com)  
email: [customerservice@ascentscientific.co.uk](mailto:customerservice@ascentscientific.co.uk)

Ascent Scientific offers the ground-breaking **Low-Cost Ligand™** range for life science researchers - a range of high quality receptor ligands offered at prices up to **50% lower** than other suppliers.

- Low-Cost Ligand™ range
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The Low-Cost Ligand™ range includes receptor agonists, antagonist and signalling tools for the following research areas:

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- Ion Channels
- Nicotinic
- Nuclear receptors
- Opioids
- Peptide receptors

- Purinergics
- Serotonin
- Vanilloids
- Signalling

### **Bitplane** **75**

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8048 Zurich, Switzerland  
Tel: +41 44 430 11 00  
Fax: +41 44 430 11 01  
website: [www.bitplane.com](http://www.bitplane.com)  
email: [marketing@bitplane.com](mailto:marketing@bitplane.com)

Bitplane is the world's leading interactive microscopy image analysis software company. Through constant innovation and a clear focus on 3D and 4D image visualisation and analysis, Bitplane actively shapes the way scientists process multi-dimensional microscopic images. Bitplane's core scientific software module Imaris delivers all the necessary functionality for data visualisation, analysis, segmentation and interpretation of 3D and 4D microscopy datasets. Bitplane is part of Andor Technology a world leader in scientific imaging, spectroscopy solutions and microscopy systems.

### **Blackrock Microsystems** **38**

391 Chipeta Way Ste. G SLC, UT 84108, United States  
Tel: + 1 801 582 5533  
Fax: + 1 801 582 1509  
website: [www.blackrockmicro.com](http://www.blackrockmicro.com)  
Contact person: Erik Nilsen  
Email: [enilsen@blackrockmicro.com](mailto:enilsen@blackrockmicro.com)

Founded in May 2008 near the Blackrock Desert in Utah, the company draws on a legacy of high tech innovation that began with Bionic Technologies, a spin-off from the University of Utah in 1997. Blackrock Microsystems provides enabling tools for the neuroscience, neural engineering and neuroprosthetics research and clinical community worldwide. Blackrock has created a commercial vision for the company to lead the market in implantable microsystems. Our team caters to the immediate and future needs of the research markets. From miniature electrodes and intelligent microsystems, to complex data acquisition systems and ground-breaking algorithms, we drive successful commercialization of cutting edge technology.

### **Blue Box Sensors Ltd.** **68**

Ground Floor, Hilton House, 3 Ardee Road, Rathmines, Dublin 6, Ireland  
Tel: +353 871 784875  
Fax: +353 1 443 0784  
website: [www.blueboxsensors.com](http://www.blueboxsensors.com)  
Contact Person: Emer Garry  
email: [e.garry@blueboxsensors.com](mailto:e.garry@blueboxsensors.com)

Blue Box Sensors Ltd. produce implantable micro-sensors and biosensors that allow long-term in vivo measurements in awake and freely moving animals. These sensors use electrochemical techniques to provide real-time, highly selective and sensitive recordings of oxygen, nitric oxide, or glucose with applications for drug discovery and screening and uncovering disease mechanisms. Blue Box Sensors Ltd. manufacture and supply this sensor range as well as providing complementary integrated hardware and software systems.

## Brains On-Line BV 46

De Mudden 16 - 9747 AW Groningen, The Netherlands  
Tel: +31 50 317 1447  
Fax: +31 50 317 1449  
website: www.brainsonline.org  
Contact person: Martin de Vries  
email: mdevries@brainsonline.org

Brains On-Line is a contract research company in neurochemistry, with laboratories located in **Groningen** (the Netherlands) and **San Francisco** (USA). We facilitate preclinical drug development for medications aimed at disorders of the CNS, in particular neuropsychological disorders (depression, schizophrenia) and neurodegenerative disorders (Parkinson's and Alzheimer's disease). Our studies include: proof of principle, dose effectiveness, pharmacokinetic and pharmacodynamic relationships, bioavailability, drug interactions/metabolism, behavior and disease models. We specialize in monitoring dynamic neurochemical parameters in vivo and in freely-moving models. For this we routinely use: (ultra-slow) microdialysis, repeated and automated blood sampling, electrophysiology, sensing, immunohistochemistry, chemistry, and bioanalysis (with HPLC and LC-MS/MS).

Product/service categories:

- analytical services
- contract research organization
- drug discovery
- electrophysiological data acquisition
- in vitro + in vivo testing
- microdialysis equipment & supplies
- receptor-ligand interactions
- research services

## CMA Microdialysis AB 63

Box 2  
17118 Solna, Sweden  
Tel: +46 8 470 10 00  
Fax: +46 8 470 10 00  
website: www.microdialysis.com  
email: cma@microdialysis.com

CMA Microdialysis is a medical device company offering a method which enables continuous monitoring of local organ or tissue chemistry both in humans and animals. The method can among other things be used to monitor the effect of medical treatment in living tissue and to determine the concentration of drugs.

## DSI - Data Sciences International 21

119 14th St. NW - Suite 100  
St. Paul, MN 55112-3914, United States  
Tel: +1 651 481 7400  
website: www.datasci.com  
email: sales@datasci.com

DSI offers a wide variety of physiological monitoring solutions for respiratory, cardiovascular, and CNS applications involving acute or chronic studies. Products include data collection and analysis systems coupled with hardwired amplifiers, implantable telemetry, externally worn telemetry, implantable infusion pumps. Sales offices throughout Europe, USA and Asia provide local support and product expertise. Parameters that can be monitored include: EEG, EMG, EOG, ECG, Pressure (arterial,

venous, bladder, intra-ocular, pleural, left ventricular, etc.), Temperature, Motor Activity and more. Applications in Neurosciences include studies on Sleep, Epilepsy, Brain, Parkinson, Aging, Addiction, Learning, etc.

## 24th ECNP Congress, Paris, France 28

Bolognalaan 28 - 3584 CJ Utrecht - The Netherlands  
Tel: +31 30 2538567  
Fax: +31 30 2538568  
website www.ecnp.eu  
email: organisingsecretariat@ecnp2011.eu

ECNP was established in 1987 to encourage research and to facilitate communication of ideas in the convergent disciplines of neuropsychopharmacology. The following activities enable ECNP to meet these objectives:

### meetings

congresses, regional meetings, workshops for young scientists, targeted expert meetings, seminars, consultation meetings

### publications

the scientific journal European Neuropsychopharmacology, ECNP Matters newsletter

### awards and incentives

awards for outstanding scientists, research grants for young scientists, fellowship awards, poster and travel awards, waived and reduced congress registration fees for young scientists

To facilitate direct dialogues with other scientific bodies and indirect dialogues with the European Union Commissions, the European Parliament and the World Health Organization (WHO), as well as other decision-making bodies

## Elsevier 31/32

Radarweg 29  
1043 NX Amsterdam, The Netherlands  
Tel. +31 20 485 3798  
website: www.elsevier.com  
Contact person: J. Grondman-de Rijk  
email: j.grondman@elsevier.com

Academic Press/Elsevier publishes high quality books, journals, and solutions products for the neurosciences. Pick up a copy of Neuroscience, an international journal under the editorial direction of IBRO. Visit our booth to browse our new and bestselling books including the new edition of Sanes' Development of the Nervous System and enjoy meeting discounts of 15-30%. You can also learn about BrainNavigator, our 2D and 3D online tool that makes visualizing and understanding the brain easier. **Elsevier organizes a range of scientific conferences supported by our journals. Brain Research is the supporting title for the RNA-Binding Proteins in Neurological Disease conference.**

## Enzo Life Sciences European Headquarters 3

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4415 Lausen, Switzerland  
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Fax: +41 61 926 8979  
website: www.enzolifesciences.com  
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## COMPANY PROFILES

### THE WORLD OF FUNCTIONAL BIOLOGY & CELLULAR BIOCHEMISTRY

www.enzolifesciences.com

Enzo Life Sciences, Inc. is an emerging source for life science research reagents. Combining the internationally recognized brands Alexis® Biochemicals, Assay Designs, BiomoI® International, Stressgen and Enzo®, Enzo Life Sciences is committed to the development, production and worldwide commercialization of high quality research reagents.

#### Experimetria Ltd.

19

Podmaniczky Str. 87, 1062 Budapest, Hungary

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Fax: +36 1 353 3451

website: www.experimetria.com

email: info@experimetria.com

**Experimetria Ltd. was founded in 1982** and during the past 27 years it has been developed continuously, that ensured its place on the world market. The company's product scale ranges from pre-clinical research physiology, pharmacology, pathophysiology, applied anatomy experiments equipment till human diagnostic products.

- In-vitro experimental devices
- In-vivo experimental devices
- Electrophysiology systems
- Behavior measurement systems
- HTP - Zebra fish measurement systems

As a further development Experimetria became the exclusive distributor of **World Precision Instruments** in Central- and Eastern-Europe. This cooperation enables our customer to select from a very wide range of high quality of pre-clinical products.

#### FD NeuroTechnologies, Inc.

5

6400 Baltimore National Pike, Suite 250

Baltimore, MD 21228, United States

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Fax: +1 410 788 1171

website: www.fdneurotech.com

Contact person: Dr. Fu Du

email: support@fdneurotech.com

FD NeuroTechnologies, established in 1996, is committed to providing unique products and services of the highest possible quality for brain research. Our products are especially designed for detection of neurodegeneration and subtle morphological changes in the central nervous system. We are most proud of our FD Rapid GolgiStain TM kit and FD NeuroSilver TM Kit II, which have been used extensively by scientists worldwide. We also possess a variety of advanced technologies for neurohistology research, and have more than a decade of experience in immunohistochemistry.

#### Femtonics Ltd.

14

1094 Budapest, Tüzoltó u. 59, Hungary

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email: info@femtonics.eu

Femtonics focuses on R&D of unique laser scanning two-photon microscopes tuned for the fastest possible 2D and 3D optical measurements which are perfectly suited for cutting-edge brain research and pharmaceutical development. Due to the modular nature of our microscope setups, they can be easily adapted to suit the most various applications. Our product line ranges from specialized laser scanning microscopes and hardware/software upgrades for existing microscope setups to brand new uncaging materials developed by our chemical department. Our multidisciplinary team is always ready to make unique developments to your custom made setups to perfectly meet your needs.

#### FENS (Federation of European Neuroscience Societies)

55

Max Delbrück Center for Molecular Medicine, Robert-Rössle-Str. 10, 13125 Berlin, Germany

Tel: +49 30 9406-3336

Fax: +49 30 9406-2813

website: www.fens.org

Contact person: Meino Gibson, Tanja Butzek

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FENS, the Federation of European Neuroscience Societies, represents 32 national European neuroscience societies and several monodisciplinary societies. FENS was founded in 1998 and is the European partner of the American Society for Neuroscience. FENS was founded with the goals of advancing research and education in neuroscience and representing neuroscience research in the European Commission, IBRO, and other granting bodies.

FENS is governed by the FENS Governing Council and the day to day FENS administration is delegated to the Executive Committee. The Executive Committee is supported by three offices based in Berlin, Brussels and Athens.

#### Gatan

34

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Pleasanton, CA 94588, United States

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Fax: +1 925 463 0204

website: www.gatan.com

email: info@gatan.com

Gatan is the world's leading manufacturer of accessories to improve and extend the capabilities of electron microscopes. Accessories of interest to the Neuroscience community include digital cameras and specialized specimen holders for transmission electron microscopy (TEM). Our recently introduced "3View™" for serial block face scanning electron microscopy (SBFSEM) offers a 3D microscopy system, which automatically produces perfectly aligned images from volumes of 500µm x 500µm x 500µm and larger at EM resolution. "3View™" brings reconstruction of neural micro circuitry to reality.

#### Harlan Laboratories, Inc.

77

Corporate Headquarters

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Tel: +1 800 793 7287

website: www.harlan.com

Harlan Laboratories is a leading provider of essential, pre-clinical and non-clinical contract research, research models, animal diets, and services to the pharmaceutical, biotech, medical device, agrochemical, and chemical industries, as well as universities, government, and other research organizations. Our focus is on providing customers with products and services to optimize the discovery and safety of new medicines and compounds. We have over 3,000 employees in 12 countries, but we act locally, understanding the value of close relationships and collaboration with our customers.

## **International Neuroinformatics Coordinating Facility (INCF) 35**

INCF Secretariat

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Contact person at IBRO2011: Janis Breeze

Contact person at office: Malin Sandström

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The International Neuroinformatics Coordinating Facility, INCF, develops collaborative neuroinformatics infrastructure and promotes the sharing of data and computing resources to the international research community. Software tools and standards for the international neuroinformatics community are being developed through the INCF Programs, which address infrastructural issues of high importance to the neuroscience community. Our mission is to facilitate the work of neuroscientists around the world, and to catalyze and coordinate the global development of neuroinformatics. INCF is funded by contributions from its member countries, based on gross domestic expenditures on research and development (GERD). Please visit [incf.org](http://incf.org) for more information.

## **Jackson ImmunoResearch Europe Ltd. 61**

Unit 7 Acorn Business Centre, Oaks Dr, Newmarket, Suffolk, CB8 7SY, UK

Tel: +44 1638 782616

Fax: +44 1638 668462

website: [www.jireurope.com/home.asp](http://www.jireurope.com/home.asp)

Contact person: Carolyn Purdie

email: cuserv@jireurope.com

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## **Janvier 23**

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Fax: +33 2 43 02 00 15

website: [www.janvier-europe.com](http://www.janvier-europe.com)

Contact Person: Pascale IMPERATORI (0033 2 43 02 11 91)

For almost 50 years, JANVIER is a major Partner in offering an extended range of products and services to **SPF and SOPF laboratory rodents** and specific services: Customized breeding of strains, Reproductive sciences/Spermology services but also Laboratory services. The development of our site, **the largest in Europe**, and infrastructures over time has combined modernity with reliability to guarantee strict compliance with hygiene requirements that characterise our environment. Since August 2010, JANVIER is the **sole authorized European Provider of the JAX® Sperm Cryo Kit** developed by **The Jackson Laboratory** to enable researchers to cryopreserve novel mouse strains in their own laboratories. **JAX® is a registered trademark of The Jackson Laboratory. All rights reserved.** Europe includes Austria, Belgium, the Czech Republic, France, Germany, Hungary, Italy, Netherlands, Poland, Slovakia, Spain, Switzerland, and the United Kingdom.

## **Kleindiek Nanotechnik 80**

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email: info@nanotechnik.com

Kleindiek Nanotechnik is a young, customer oriented high-tech company. With an innovative and powerful driving concept we are entering new space in micro- and nano-positioning. Due to miniaturisation in semiconductor technology, optics, micro-mechanics, medicine, gene- and bio-technology, highly precise positioning techniques are becoming increasingly important. Our products meet and exceed customer's requirements, offering them a new level of precision. Our customer-driven approach is focused on providing complete and innovative solutions for each of our market segments: researchers, industrial customers and enterprises. Our product development philosophy is the direct solution of the specific underlying problem. The simplicity, homogeneity and harmony of our designs guarantee maximum manoeuvrability and highest resolution while maintaining the smallest outer dimensions.

## **Leica Microsystems Srl 1/2**

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email: supporto.clienti@leica-microsystems.com

**Leica Microsystems** is a world leader in microscopes and scientific instruments. Its historically close cooperation with the scientific community is the key to Leica Microsystems' tradition of innovation, which draws on users' ideas and creates solutions tailored to their requirements. The company is represented in over **100 countries** with **12 manufacturing facilities in 7 countries, sales and service organizations in 19 countries** and an international **network of dealers**. The company is **headquartered in Wetzlar, Germany**.



## COMPANY PROFILES

### Luigs & Neumann, Feinmechanik & Elektrotechnik GmbH 41

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 Tel: +49 2102 94700-0  
 Fax: +49 2102 442036  
 website: [www.luigs-neumann.com](http://www.luigs-neumann.com)  
 email: [info@luigs-neumann.com](mailto:info@luigs-neumann.com)

Since the early eighties Luigs & Neumann has established itself as well known developer and producer of electrophysiological workstations. This wealth of experience and the feedback from scientists from all over the world are the basis of the high engineering standards and manufacturing quality of Luigs & Neumann. Our broad product range and the ability to create customer specific setups are a result of our flexible and innovative adaption to new scientific requirements. Our array of product includes patch manipulators, bath chamber systems and optical components as well as moving tables for 2-photon-systems and InVivo setups.

### MicroProbes for Life Science 50

18247-D Flower Hill Way  
 Gaithersburg, MD 20879, United States  
 Tel: +1 301 330 9788  
 Fax: +1 301 330 9667  
 website: [www.microprobes.com](http://www.microprobes.com)  
 Contact persons:  
 Martin Bak – CEO  
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 Claudia Tsas - Marketing & Sales, Manager  
 email: [claudia.tsas@microprobes.com](mailto:claudia.tsas@microprobes.com)

Serving the medical research community for over 28 years with unparalleled quality products and service, our team of design and manufacturing experts are devoted to meeting your unique electrode requirements.

Whether your research protocol demands a simple metal electrode for acute studies or complex implantable multi-channel arrays for long term chronic applications, MicroProbes for Life Science has the answer.

### Miltenyi Biotec 22

Friedrich-Ebert-Strasse 68, 51429 Bergisch Gladbach, Germany  
 Tel: +49 220483060  
 Fax: +49 220485197  
 website: [www.miltenyibiotec.com](http://www.miltenyibiotec.com)  
 email: [macs@miltenyibiotec.de](mailto:macs@miltenyibiotec.de)

Miltenyi Biotec meets research needs with pioneering technology. The only solution for neuroscience research that spans sample preparation to downstream applications, our portfolio enables:

- Fast, simple, and gentle tissue dissociation
- Isolation of high-purity cell populations in minutes, not weeks
- Sophisticated flow cytometric, molecular, and genetic analyses
- Reliable culturing for unlimited experimental potential

Our MACS® Technology is the de facto gold standard for neural progenitor, astrocyte, microglia, and other cell separations, and is behind the publication of more than 14,500 papers. Smart products, detailed protocols, and excellent support service save researchers time and money, leading to faster breakthroughs and faster publications.

### The MIT Press 82

55 Hayward Street – Cambridge - MA 02142-1315, United States  
 Tel London office: +44 207 306 0603  
 Tel US office: +1 617 253 5646  
 website: <http://mitpress.mit.edu>

The MIT Press publishes distinguished scholarly books in Neuroscience and related cognitive and biological sciences. New titles in 2011 include: *Networks of the Brain* by Olaf Sporns; *Cerebral Plasticity: New Perspectives*, edited by Leo M Chalupa et al.; *Statistical Analysis of fMRI Data* by F Gregory Ashby; *Neural Control Engineering* by Steven J Schiff; *How We Remember* by Michael E Hasselmo, and *The Cognitive Neuropsychiatry of Parkinson's Disease* by Patrick McNamara. We welcome the submission of proposals and manuscripts for consideration. Please contact: Robert V. Prior, Executive Editor, The MIT Press, 55 Hayward Street, Cambridge, MA 02142, USA. [prior@mit.edu](mailto:prior@mit.edu)

### Multi Channel Systems MCS GmbH 64

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 72770 Reutlingen, Germany  
 Tel: +49 7121 9 09 25 25  
 Fax: +49 7121 9 09 25 11  
 website: [www.multichannelsystems.com](http://www.multichannelsystems.com)  
 email: [sales@multichannelsystems.com](mailto:sales@multichannelsystems.com)

Multi Channel Systems focuses on the development of precision scientific measuring instrumentation and equipment in the field of electrophysiology. We provide solutions for extra-cellular recordings with microelectrode arrays in-vitro and in-vivo as well as for electrical stimulation. Because of their modular principle, our products can be extended and adjusted to your specific experimental needs.

Together with our distribution partners, we serve laboratories, research institutes and the pharmaceutical industry all over the world. Over 15 years of experience and our international distribution network make us the global market leader in the field of non-clinical electrophysiology with microelectrode arrays.

### NAN Instruments Ltd. 51

9 Hayetzira St.  
 Nazareth Illit. 17840, Israel  
 Tel: +972 4 6018999  
 Fax: +972 4 6015999  
 website: [www.naninstruments.com](http://www.naninstruments.com)  
 Contac person: Nabil Abunassar  
 email: [nabil@naninstruments.com](mailto:nabil@naninstruments.com)

NAN INSTRUMENTS offers Micro drive and devices for recording electrical activity from the brain and nervous system. The unique patented design of the Electrode Positioning Systems that NAN instruments offers, gives the users powerful tools to manipulate each electrode individually in the XYZ planes. In addition to this noncompetitive feature, NAN Instruments offers a modular system that could handle up to 100 electrodes.

**nanoTherics Ltd.** **9**  
**High Performance Transfection Products**  
Guy Hilton Research Centre  
Thornburrow Drive, Hartshill, Staffordshire  
ST4 7QB, UK  
Tel: +44 1782 555639  
Fax: +44 1782 747319

nanoTherics provides the magnefect product range which use an innovative oscillating magnet assisted transfection technology offering significant benefits over current lipid based chemical and physical based transfection methods. Advantages include: (i) excellent cell viability (unlike other techniques such as electroporation) so ideal for high value neuroscience and stem-cell research (ii) improved transfection efficiency and effectiveness enabling potential use with hard to transfect cells (iii) low running costs (as low as \$0.10 per well) (iv) speed (<30 minutes) and scalability. NanoTherics also provides the Magnetherm hypothermia device with a wide range of heating frequencies for magnetic nanoparticle hyperthermia applications.

**Neuralynx Inc.** **44**  
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email: sales@neuralynx.com

Neuralynx has been providing Electrophysiology and Neuroscience researchers with the highest quality single-unit, multi-channel Electrophysiology recording equipment since 1993. Our products represent the state of the art in high density Data Acquisition & Experiment Control solutions.

**NeuroNexus Technologies** **24**  
655 Fairfield Ct  
Ann Arbor, MI 48108, United States  
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NeuroNexus Technologies, Inc. is a global leader for innovative neural interface products and technologies to meet both current and upcoming needs in neuroscience research, neurosurgery, and neurostimulation. NeuroNexus products span almost every area of the brain, from fruit fly to primate! Use our probes to record, stimulate and delivery drugs to the neural tissue.  
Product Profile:  
Microelectrode arrays for multichannel extracellular recording, stimulation, drug delivery, and optical genetics.

**Nikon Instruments S.p.A.** **13**  
Via A. Meucci 59, 50041 Calenzano, Florence, Italy  
Tel: +39 055 300951  
Mobile: +39 335 6828271  
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**Noldus Information Technology** **79**  
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Tel: +31 317 473300  
Fax: +31 317 424496  
website: www.noldus.com  
email: conferences@noldus.nl

Noldus Information Technology develops, markets, and supports professional software and instrumentation for animal behavior research. Noldus products enable the collection, analysis, management, and presentation of behavioral data. Scientists all over the world use it to study behavioral processes, automate experiments, improve the quality and efficiency of their research.  
The product range includes a number of successes such as The Observer XT, EthoVision XT, CatWalk XT, and PhenoTyper. In addition, Noldus offers accessories to complete the experimental set-up, such as mazes and other test arenas, or even completely integrated systems. To complete their services, they provide consulting, training, and technical support.

**Novus Biologicals** **43**  
12 Cambridge Science Park, Cambridge, CB40FQ, UK  
Tel: + 44 1223 426 001  
Fax: +44 871 971 1635  
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email: Nehal@novusbio.com

Novus Biologicals' mission is to accelerate scientific discovery by developing and marketing unique products at the forefront of the life sciences. Founded in 1998, Novus Biologicals' catalogue now contains over 100,000 antibodies to over 16,000 protein targets. In addition to antibodies we also sell proteins and RNAi reagents used in life science research. All our products are supplied with detailed technical information and ongoing support. In 2009 we opened our Cambridge, UK office to provide real time support and faster delivery to our European customers. We look forward to helping you reach your potential.

**Npi Electronic GmbH** **72**  
Hauptstrasse 96 - 71732 Tamm, Germany  
Tel: +49 7141 97302 30  
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website: www.npielectronic.com  
Contact person: Hans Reiner Polder  
email: support@npielelectronic.com

For meanwhile over 25 years npi electronic GmbH develops and produces equipment for research in the life sciences (especially physiological basic research) with main focus on neurosciences. Instruments include patch and voltage clamp amplifiers, oocyte amplifiers, extracellular amplifiers, stimulus isolators, voltammetric and amperometric amplifiers, amplifiers for electroporation, filters, substance application systems, micromanipulators, temperature controllers and data acquisition systems. npi electronic can also supply integrated systems like the robotic ScreeningTool for ion channel drug screening using oocytes, and complete setups. npi electronic is a leader in the design and manufacture of instruments for bioelectrical measurements and for microelectrode techniques.



## COMPANY PROFILES

### **Panlab Harvard Apparatus**

15/17

C/ Energía, 112 - 08940 Cornellà, Barcelona, Spain  
 Tel: +34 934750697  
 Fax: +34 934750699  
 website: [www.panlab.com](http://www.panlab.com)  
 email: [info@panlab.com](mailto:info@panlab.com)

Panlab s.l. manufactures high quality equipment for the Biological Sciences for more than 30 years now. We are a team of more than 35 people covering all stages of development, from designing to manufacturing, from software to hardware, from technical to scientific support. This makes us a high reliable and flexible provider and business partner, always ready to adapt, improve or develop new or pre-existent lines of products. Panlab s.l. offers a wide range of products for the exploration of behaviour and phenotyping in small laboratory animals. SMART Video Tracking Systems and PACKWIN software for operant conditioning are just a sample of our capabilities in terms of market leadership.

### **Perimed AB**

26

Datavagen 9A – Jarfalla, Sweden  
 Tel: +39 02 97249124  
 Fax: +39 0297249845  
 website: [www.perimed-instruments.com](http://www.perimed-instruments.com)  
 Contact person: Achille Moneta  
 email: [mail@perimed.it](mailto:mail@perimed.it)

Perimed AB, established in 1981 and headquartered just outside Stockholm, is the world leader in developing, manufacturing and marketing state-of-the-art equipment for microvascular diagnosis (laser Doppler and laser speckle imaging systems). With customers in more than 80 countries, Perimed also actively participates in a wide range of research projects together with leading universities to deepen our understanding of diseases related to blood perfusion and microvascular functions. Knowledge gained is continually re-invested in further development.

### **PhenoSys GmbH**

57

Droysenstr. 8  
 10629 Berlin, Germany  
 Tel: +49 30 548 588 31  
 website: [www.phenosys.com](http://www.phenosys.com)  
 email: [info@phenosys.com](mailto:info@phenosys.com)

PhenoSys is a Research and Development (R&D) oriented company that engineers and markets cutting edge technology for automated animal behaviour research. This is achieved by a team uniting the expertise of electrical and mechanical engineering, computer science, and behavioural biology. PhenoSys offers unique automated setups in the field of behaviour biology. Our expertise includes specialized applications of virtual reality and touchscreen technology for animal behaviour environments and RFID (transponder) operated devices in home cage environments. Our experimental systems are used for behavioural phenotyping, for brain research, for experimental psychology and the diagnostic characterization of animal models for translational medicine.

### **Phoenix Europe GmbH**

74

Viktoriastrasse 3-5, 76133 Karlsruhe, Germany  
 Tel: +49 721 12 08 15 0  
 Fax: +49 721 12 08 15 15  
 Contact person: Dr. Oliver Jahraus  
 email: [europe@phoenixpeptide.com](mailto:europe@phoenixpeptide.com)  
 website: [www.phoenixpeptide.com](http://www.phoenixpeptide.com)

Phoenix Pharmaceuticals specializes in peptides, antibodies, and immunoassays for neuroscience research including Amyloid-Beta, APL-1, & P5/P35 product lines for Alzheimer's and related diseases. Newer products include our sensitive fluorescent EIA kits and high-quality stem-cell research reagents. Services include hormone level determination (sample prep and assay included); as well as custom peptide synthesis, labeling, and antibody production. Please visit us for a free technical reference CD.

### **Pinnacle Technology Inc.**

48

2721 Oregon Street  
 Lawrence, KS 66046, United States  
 Tel: +1 785 832 8866  
 Fax: +1 785 749 9214  
 website: [www.pinnacle.com](http://www.pinnacle.com)  
 Contact person: Chris Jubic  
 email: [sales@pinnacle.com](mailto:sales@pinnacle.com)

Pinnacle Technology provides new tools for rodent research that simplify measurement, reduce cost and enable new discoveries. Current products include: wireless and tethered biosensor systems for the real-time measurement of neurotransmitters including glutamate, lactate, glucose, ethanol & catecholamines, EEG/EMG systems for seizure and sleep monitoring, sleep deprivation chambers and integrated video recording.

### **Plexon Inc.**

53

6500 Greenville Avenue  
 Suite 730  
 Dallas, TX 75206, United States  
 email: [info@plexon.com](mailto:info@plexon.com)

Plexon designs and markets intuitive and reliable data-acquisition systems for recording and analyzing spike, field potential and other continuous physiological and behavioral signals. Plexon's MAP and OmniPlex systems are world leaders in real-time spike sorting and field potential data acquisition. Plexon offers a comprehensive product line for the systems neuroscientist, including digital video recording and position tracking, commutators, headstage amplifiers, modular chronic and acute microelectrode drives, single and multi-site microelectrodes, microwire arrays and software to analyze spike, field potential, and behavioral data offline.

### **Proteintech Group**

59

Manchester Science Park, Kilburn House, Manchester, M15 6SE, UK  
 Tel: +44 161 2266144  
 Fax: +44 161 2321272  
 website: [www.ptglab.com](http://www.ptglab.com)  
 Contact person: Libby Witherden  
 email: [europe@ptglab.com](mailto:europe@ptglab.com)



Proteintech antibodies are raised against the whole recombinant protein. This gives our antibodies superior protein recognition capabilities and versatility, meaning you can use them in any application. In many assays, epitopes are destroyed or hidden, whole protein antigen-generated antibodies however, are a mixture of many IgGs specific for the target protein, so even if many epitopes are lost there is a much higher probability of successful binding. Our validation process is one you can really trust as we use primary tissues and regular cell lysates to perform all our Western Blots. We are so confident of this we have covered them with a 100% money back guarantee to give you 100% peace of mind.

## R&D Systems Europe Ltd.

19 Barton Lane  
Abingdon Science Park - OX14 3NB, UK  
Tel: +44 1235 529449  
Fax: +44 1235 551129  
website: www.RnDSystems.com  
email: info@rndsystems.co.uk

R&D Systems has over 20 years experience developing innovative, high quality Neuroscience research reagents. We offer over 17,000 products, developed, manufactured and controlled in our own laboratories.

Our products include:

**Antibodies** – for neutralisation, cell phenotyping, IHC, Western blot

**Flow Cytometry** antibodies, reagents and buffers

**Proteins** – cytokines, growth factors, neurotrophic factors, morphogens, chemokines, receptors, and more

**Multiplex** assays – membrane arrays, microplate arrays and Luminex assays

**Cell isolation kits** and specialised culture media and supplements

**Stem Cell Kits** – for expansion, differentiation and functional identification of stem cells

**ELISA** kits and reagents

**ELISpot** kits and reagents

## Royal Society Publishing

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6-9 Carlton House Terrace, London, SW1Y 5AG, UK  
Tel: +44 20 7451 2647  
Fax: +44 20 7976 1837  
website: royalsocietypublishing.org/journals  
Contact person: Joanna Bolesworth  
email: joanna.bolesworth@royalsociety.org

The Royal Society publishes four biology journals, all of which encourage submissions in neuroscience:

*Philosophical Transactions B* publishes topical themed issues, each one dedicated to a specific area of the biological science.  
<http://rstb.royalsocietypublishing.org>

*Proceedings B* publishes high quality research papers and reviews.  
<http://rspb.royalsocietypublishing.org>

*Biology Letters* publishes short, letter-style articles  
<http://rsbl.royalsocietypublishing.org>

*Open Biology* is a **new** Open Access journal covering research in cellular and molecular biology  
<http://rsob.royalsocietypublishing.org>

Please come and visit us at booth number 33 where our representative, Joanna Bolesworth will be happy to answer any questions you may have about our journals. Alternatively, visit our website at <http://royalsocietypublishing.org>

## Science/AAAS

54

Bateman House  
82-88 Hills Road  
Cambridge, CB2 1LQ, UK  
Tel: +44 1223 326500  
Fax: +44 1223 326501  
website: www.sciencemag.org, www.aaas.org

Since 1848, AAAS and its members have worked together to advance science and serve society. As part of these efforts, AAAS publishes *Science*, a multidisciplinary peer-reviewed journal, and offers programs focused on science policy, international cooperation, science education, diversity, and career development for scientists. Learn more at [aaas.org](http://aaas.org) and [sciencemag.org](http://sciencemag.org).

## Scientifica Ltd.

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Kingfisher Court, Brambleside, Bellbrook Industrial Estate, Uckfield, East Sussex, TN22 1QQ, UK  
Tel: +44 1825749933  
Fax: +44 1825749934  
website: www.scientifica.uk.com  
email: sales@scientifica.uk.com

Scientifica are experts in electrophysiology & imaging equipment and renowned for in vitro and in vivo electrophysiology and related imaging techniques, including patch clamp and multiphoton microscopy.

We are pleased to show-case two Slicescope Pro motorised microscope and micromanipulation systems, set up with our new Multiphoton detection module and in vivo equipment. Highly stable with a narrow profile, the full motor control of objective, condenser and micromanipulators makes it ideal for slice recording. Complimenting the PatchStar micromanipulator (20 nm resolution, drift of less than 1 micron over 2 hours) will be our new slimline MicroStar micromanipulator, ideal for multi-site patching.

## Society for Neuroscience (SfN)

56

1121 14th St., NW, Suite 1010; Washington, DC 20005, United States  
Tel: +1 202 962 4000  
Fax: +1 202 962 4946  
website: www.sfn.org  
Contact person: Marci Leach  
email: mleach@sfn.org

Founded in 1969 with 500 members, the Society for Neuroscience has grown to more than 41,000 members in 97 countries. Stop by our booth to learn more about our annual meeting, Neuroscience 2011, taking place November 12-16 in Washington, DC or pick up a copy of *The Journal of Neuroscience*.

## Springer

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Tiergartenstr. 17, 69121 Heidelberg, Germany  
Tel: +49 6221 487 0  
Fax: +49 6221 487 0  
website: [springer.com](http://springer.com)

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## COMPANY PROFILES

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### **STEMCELL Technologies Inc.** 47

Suite 400 - 570 West Seventh Avenue  
Vancouver, British Columbia  
V5Z 1B3, Canada  
Tel: +1 800 667 0322  
Fax: +1 800 567 2899  
website: [www.stemcell.com](http://www.stemcell.com)  
email: [info@stemcell.com](mailto:info@stemcell.com)

STEMCELL Technologies has been setting standards for quality cell culture media and reagents since 1993. As scientists helping scientists, we have developed over 1000 specialty products for stem cells from a variety of tissues, including neural, hematopoietic, pluripotent, mesenchymal, mammary and more. The NeuroCult™ product line includes nearly 30 different media products, culture assays and differentiation kits for primary mammalian neural stem cells, as well as quality supporting reagents for neurons. Learn more about NeuroCult™ products and protocols at [www.stemcell.com](http://www.stemcell.com), through our educational videos, webinars and mini-reviews.

### **The Brain Prize** 52

Ole Maaloes Vej 3  
2200 Copenhagen N, Denmark  
Tel & fax number: +45 39 17 82 40  
website: [www.thebrainprize.org](http://www.thebrainprize.org)  
Contact person: Janne Axelsen  
email: [info@thebrainprize.org](mailto:info@thebrainprize.org)

The Brain Prize will be awarded to one or more scientists who have distinguished themselves by an outstanding contribution to European brain research. The € 1 million prize is a personal prize and has been awarded for the first time in May 2011 to György Buzsáki, Tamás Freund and Péter Somogyi. Awards will be followed by an extensive outreach programme organised together with the major Danish universities. Further information: [www.thebrainprize.org](http://www.thebrainprize.org)

### **Thermo Scientific** 4/6

Industriezone III, Industrielaan 27  
9320 Erembodegem, Belgium  
Tel & fax: + 32 53 83 44 04  
website: [www.thermo.com](http://www.thermo.com)  
email: [perbio.euromarketing@thermofisher.com](mailto:perbio.euromarketing@thermofisher.com)

Our industry-leading offering of innovative technologies for life science research and drug discovery includes familiar names across a range of products for:

- Pierce protein research products helps customers understand normal and disease pathways with tools for more efficient protein research, including protein purification, protein characterization and protein interaction.
- Open Biosystems products offer a full solution for protein-detection research with comprehensive line of custom or catalog antibodies and biomarker development services.
- Dharmacon RNA interference (RNAi) Research products provide industry-leading siRNA, shRNA and miRNA design, chemical

modification and delivery technologies for highly efficient gene silencing and analysis of biological systems.

- HyClone Cell Culture & Bioprocessing offers cell culture nutrition products for the production of vaccines, monoclonal antibodies, protein-based drugs and diagnostics.
- BiomeX & Cellomics High-Content Screening & Analysis products are a key supplier of automated imaging instruments, image-analysis and informatics software, reagents and validated screening assays.
- ABgene PCR Reagents & Plastics enable precise nucleic-acid measurement for a better understanding of cellular mechanisms. Our offering also includes solutions for sample archiving and retrieval, from simple storage to large-scale biobanking.

### **Thomas RECORDING GmbH** 66

Winchester Strasse 8  
D-35394 Giessen, Germany  
Tel: +49 641 94414 0  
Fax: +49 641 94414 14  
website: [www.ThomasRECORDING.com](http://www.ThomasRECORDING.com)  
email: [info@thomasrecording.com](mailto:info@thomasrecording.com)

Thomas RECORDING GmbH is the sole manufacturer and distributor of microelectrodes and multi-electrode recording systems and medical applications. As a specialist of microelectrodes for neurophysiological research, it was the first company in the world to develop 4-cores (tetrodes) and 7-cores (heptodes) quartz-platinum/tungsten multifiber microelectrodes. Furthermore, Thomas RECORDING GmbH offers a 5-channel microdrive (mini-matrix), camera-based eye-tracking systems, medical functional neuronavigation systems and stereotaxic frames.

### **TILL Photonics GmbH** 73

Lochhamer Schlag 21, 82166 Gräfelfing, Germany  
Tel: +49 89 895 662 0  
Fax: +49 89 895 662 101  
website: [www.till-photonics.com](http://www.till-photonics.com)  
email: [info@till-photonics.com](mailto:info@till-photonics.com)

TILL Photonics GmbH develops and markets innovative life science products for fluorescence microscopy as used in fundamental research, applied science and diagnostics. Our key competencies are extremely flexible, modular systems for all current and future microscopy standards as well as complete turnkey solutions for imaging and photometry.

### **Tobii Technology** 20

Niedenau 45, 60325 Frankfurt, Germany  
Tel: +49 69 2475034 0  
Fax: +49 69 2475034 29  
website: [www.tobii.com](http://www.tobii.com)  
email: [sales.de@tobii.com](mailto:sales.de@tobii.com)

Tobii Technology is a world leader in hardware and software solutions for eye tracking. Eye tracking enables a computer to tell exactly where a person is looking. Using radical innovations in technology, our mission is to bring eye tracking into broader use in applications such as eye control interfaces for computers, design testing and medical diagnostics. Tobii provides complete solutions for the use of eye tracking in market research, usability testing, scientific research, assistive technology as well as OEM eye tracking components to industry partners.

## **Tocris Bioscience** **70**

Tocris House, IO Centre, Moored Farm Avenue, Avonmouth, Bristol, BS11 0QL, UK  
Tel: +44 117 916 3333  
Fax: +44 117 916 3344  
website: www.tocris.com  
email: customerservice@tocris.co.uk

Tocris Bioscience provides the highest performing and most innovative range of research reagents to cover all areas of neuroscience, including:

- Alzheimer's Disease
- Depression
- Memory, Learning and Cognition
- Neural Development
- Nociception
- Parkinson's Disease

Visit [www.tocris.com](http://www.tocris.com) to review our latest products and to request free posters on Alzheimer's, Depression and Neuroprotection.

## **TSE Systems GmbH** **71**

Siemensstr. 21  
61352 Bad Homburg, Germany  
Tel: +49 6172 789 0  
Fax: +49 6172 789 500  
website: www.TSE-Systems.com  
email: info@TSE-Systems.com

TSE Systems is a leading supplier of sophisticated research instrumentation in the global life science market. With over 120 years experience, we provide total customer solutions including expandable, integrated hard- and software platforms for in-vivo studies in neuroscience, phenotyping, drug screening and toxicology. The modular, automated TSE PhenoMaster systems for metabolic and behavioral phenotyping are unique worldwide. An interdisciplinary team of scientists and engineers closely collaborate with customers to provide innovations optimizing our products and developing new approaches.

### **NEW:**

**TSE Multi Conditioning System** that offers an integrated ALL-IN-ONE solution

**IntelliCage** by NewBehavior / **NeuroLogger** by NewBehavior

## **Tucker-Davis Technologies** **40**

11930 Research Circle  
Alachua, FL 326715, United States  
Tel: +1 386 462 9622  
Fax: +1 386 462 5365  
website: www.tdt.com  
Contact person: Victor Rush, PhD  
email: info@tdt.com

Tucker-Davis Technologies (TDT) is a leading manufacturer of DSP-based data acquisition and stimulus generation systems, offering products ranging from electrodes to complete workstations for neurophysiology and evoked potentials. Core products include: OpenEx software for experiment control and analysis and Z-Series BioAmp Systems for processing high channel count neural data. New products include: RS4 multi-channel data streamer, RV2 video capture and tracking system, the

I22 multi-channel microstimulator, and the ZCD ZIF-Clip® direct digital headstages-the industry's smallest and highest channel count digitizing headstages. TDT puts 20 years of continuing innovation and experience supporting neuroscience research systems to work for you.

## **Ugo Basile SRL** **60**

Via Guido Borghi 43, 21025 Comerio, Varese, Italy  
Tel: +39 0332 744574  
Fax: +39 0332 745488  
website: www.ugobasile.com  
website: www.ugobasileUSA.com  
Contact person: Federico Montechiaro  
email: sales@ugobasile.com  
email: info@ugobasile.com

Ugo Basile is the world's leading manufacturer of instruments for *Pain and Behavioral Research*.

With more than **10,000** hits in the major bibliographic search engines, Ugo Basile provides classic and innovative instruments that scientists have been using *worldwide* since **1963**:

- Rota-rod
- Plethysmometer
- Randall-Selitto Analgesy-meter
- Plantar Test (Hargreaves Test)
- Dynamic Plantar Aesthesiometer
- Von Frey Hairs & Electronic Von Frey
- Orofacial Stimulation Test
- P.A.M. for Joint Pain
- Rodent Ventilator
- Gas Anesthesia

## **Viewpoint** **27**

11 c rue des Aulnes  
69410 Champagne Au Mont d'Or, France  
Tel: +33 4 72 17 91 92  
Fax: +33 4 72 17 91 99  
email: info@viewpoint.fr  
website: www.viewpoint.fr

VIEWPOINT provides tools to automate behaviour analysis based on videotracking :

VIDEOTRACK is designed for rodents applications for tests such as Morris watermaze, elevated plus Maze, Object recognition, PHENORACK allows sideview of home cages of rats or mice for high throughput phenotyping experiments, ZEBRALAB is a high throughput system for zebrafish behaviour analysis with capabilities on PMR test, heart beat and blood flow measurement, GAITLAB is a turnkey solution for automated quantitative assessment of catwalk analysis, VIGIE PRIMATES makes it possible to work on primates and dogs, We will also display our MARLAU enrichment cage as well as our Sleep Deprivation system.



## COMPANY PROFILES

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### **VisualSonics** 10

3080 Yonge Street Suite 6100  
Toronto M4N3N1, Canada  
Tel: +1 416 484 5000  
Fax: +1 416 484 5001  
website: [www.visualsonics.com](http://www.visualsonics.com)  
Contact person: Mandi Waite  
email: [info@visualsonics.com](mailto:info@visualsonics.com)

VisualSonics is the undisputed world leader in high-resolution *in vivo* preclinical imaging, with our cutting edge fiber-based confocal fluorescence and high frequency ultrasound platforms. These technologies are helping researchers around the world visualize and quantify physiological structures and processes in stunning clarity down to the micron level. Furthermore, these *in vivo* imaging systems allow for longitudinal studies maximizing experimental potential and clinical relevance. Unlike other imaging modalities, our solutions are designed and optimized by researchers specifically for preclinical research, providing unparalleled value, robustness and throughput.

### **Wiley-Blackwell** 65/67

John Wiley & Sons Ltd.  
Customer Services Department - 1 Oldlands Way  
Bognor Regis - West Sussex, PO22 9SA, UK  
Tel: +44 1243 843294  
Fax: +44 1243 843303  
website: [www.onlinelibrary.wiley.com/subject/neuroscience](http://www.onlinelibrary.wiley.com/subject/neuroscience)  
email: [customer@wiley.com](mailto:customer@wiley.com)

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### **Wisepress Medical Bookshop** 81

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London SW19 2JL, UK  
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Fax: +44 20 8715 1722  
website: [www.wisepress.com](http://www.wisepress.com)  
email: [bookshop@wisepress.com](mailto:bookshop@wisepress.com)

Wisepress.com, Europe's leading conference bookseller, has a complete range of books and journals relevant to the themes of the meeting. Books can be purchased at the stand or, if you would rather not carry them, posted to you – Wisepress will deliver worldwide. In addition to attending 200 conferences per year, Wisepress has a comprehensive medical and scientific bookshop online with great offers.

## PROGRAM INFORMATION

### LIST OF PLENARY LECTURES

Thursday, July 14, 2011

**EDAB-IBRO PRESIDENTIAL LECTURE** 17:30 - Auditorium Verdi  
**Fifty Years of IBRO**  
Albert J. Aguayo (Montreal, Canada)

**OPENING PLENARY LECTURE PL1** 19:00 - Auditorium Verdi  
Useful signals from motor cortex  
Andrew B. Schwartz (Pittsburgh, USA)

Friday, July 15, 2011

**PLENARY LECTURE PL2** 08:30 - Auditorium Verdi  
Regulation and function of adult neurogenesis in  
the hippocampal formation  
Fred H. Gage (La Jolla, USA)

**PRESIDENTIAL PLENARY LECTURE PL3** 17:30 - Auditorium Verdi  
Motivational value in the human brain  
Ray J. Dolan (London, UK)

Saturday, July 16, 2011

**PLENARY LECTURE PL4** 08:30 - Auditorium Verdi  
Local control of synaptic function  
Erin M. Schuman (Frankfurt, Germany)

**PLENARY LECTURE PL5** 17:30 - Auditorium Verdi  
The neurobiology of pain and its control  
Allan I. Basbaum (San Francisco, USA)

Sunday, July 17, 2011

**PLENARY LECTURE PL6** 08:30 - Auditorium Verdi  
Visualizing circuits in the developing visual system  
Joshua R. Sanes (Harvard, USA)

**PLENARY LECTURE PL7** 17:30 - Auditorium Verdi  
Molecular genetics of neurodegenerative dementias  
Christine van Broeckhoven (Antwerpen, Belgium)

Monday, July 18, 2011

**PLENARY LECTURE PL8** 08:30 - Auditorium Verdi  
Defining the neuronal circuitry of fear  
Andreas Lüthi (Basel, Switzerland)

**CLOSING PLENARY LECTURE PL9** 17:30 - Auditorium Verdi  
Optogenetics: development and application  
Karl Deisseroth (Stanford, USA)

### LIST OF SPECIAL EVENTS

Thursday, July 14, 2011

**SINS SPECIAL FEATURE SS1** 15:30 - Auditorium Verdi  
ITALIAN PIONEERS IN NEUROSCIENCE OF THE PAST CENTURIES

Friday, July 15, 2011

**SPECIAL EVENT SE01** 12:30 - Room Mazzini  
MUSIC AND BRAIN PLASTICITY:  
FOUNDATION IPSEN NEURONAL PLASTICITY PRIZE

**SPECIAL EVENT SE02** 12:30 - Room Cavour  
MOLECULAR AND SYSTEMS NEUROBIOLOGY IN DEVELOPMENT AND  
DISEASE: CONTRIBUTIONS FROM IBRO ALUMNI WORLDWIDE

**SPECIAL EVENT SE03** 12:00 - Room Vittorio Emanuele II  
JOINT MEETING BETWEEN THE FRENCH AND ITALIAN NEUROSCIENCE  
SOCIETIES

SDN-SINS SPECIAL LECTURE 1  
Wiring the brain: getting rid of unwanted synapses  
Cornelius Gross (Monterotondo, Italy)

SDN-SINS MINISYMPOSIUM 1  
NOVEL TARGETS IN DRUG ADDICTION

Saturday, July 16, 2011

**SPECIAL EVENT SE04** 12:30 - Room Mazzini  
IBRO SYMPOSIUM: CONTRIBUTION OF IBRO TO WORLD  
NEUROSCIENCE

**SPECIAL EVENT SE05** 12:30 - Room Cavour  
FINE-SCALE MAPPING OF THE DEVELOPING MOUSE AND HUMAN  
BRAIN

**SPECIAL EVENT SE06** 12:30 - Room Vittorio Emanuele II  
JOINT MEETING BETWEEN THE FRENCH AND ITALIAN NEUROSCIENCE  
SOCIETIES

SDN-SINS MINISYMPOSIUM 2  
NEW INSIGHTS INTO GEPHYRIN FUNCTION

Sunday, July 17, 2011

**SPECIAL EVENT SE07** 12:30 - Room Mazzini  
INTO THE BRAIN OF PATIENT H.M. - COMPUTERIZED ANATOMICAL  
EXAMINATION OF A NOTABLE CASE OF AMNESIA

**SPECIAL EVENT SE08** 12:00 - Room Cavour  
ETHICS OF SCIENTIFIC PUBLISHING - WHY DOES IT MATTER? ADVICE  
FROM EDITORS OF NEUROSCIENCE JOURNALS  
SOCIETY FOR NEUROSCIENCE (USA) AND IBRO WORKSHOP



## PROGRAM INFORMATION

**SPECIAL EVENT SE09** 12:30 - Room Garibaldi  
MEETING JAPANESE NEUROSCIENTISTS

**SPECIAL EVENT SE10** 12:30 - Room Vittorio Emanuele II  
JOINT MEETING BETWEEN THE FRENCH AND ITALIAN NEUROSCIENCE SOCIETIES

SDN-SINS MINISYMPOSIUM 3  
NEW NEURONS FOR DISEASED BRAINS: FUNCTIONAL SIGNIFICANCE AND PERSPECTIVES FOR BRAIN REPAIR

Monday, July 18, 2011

**SPECIAL EVENT SE11** 12:30 - Room Mazzini  
ICSU, THE INTERNATIONAL COUNCIL FOR SCIENCE SCIENCE AND THE USE OF SCIENTIFIC KNOWLEDGE

**SPECIAL EVENT SE12** 12:30 - Room Cavour  
FUNDING OPPORTUNITIES AND GRANT WRITING PRIMER  
WOMEN IN WORLD NEUROSCIENCE (WWN) WORKSHOP

**SPECIAL EVENT SE13** 12:30 - Room Garibaldi  
FENS/JNS/IBRO/SfN SYMPOSIUM ON LEGAL TRENDS ON THE USE OF ANIMALS IN RESEARCH ACROSS THE WORLD

**SPECIAL EVENT SE14** 12:00 - Room Vittorio Emanuele II  
JOINT MEETING BETWEEN THE FRENCH AND ITALIAN NEUROSCIENCE SOCIETIES

SDN-SINS SPECIAL LECTURE 2  
Tracking the memory trace during systems consolidation  
Bruno Bontempi (Bordeaux, France)

SDN-SINS MINISYMPOSIUM 4  
CELLULAR MECHANISMS IN PAIN SENSITIVITY

### LIST OF SPECIAL WORKSHOPS

Thursday, July 14, 2011

**SPECIAL WORKSHOP SW01** 13:30 - Room Mazzini  
WORKSHOP ON COMMUNICATION OF RESEARCH RESULTS

**SPECIAL WORKSHOP SW02** 13:50 - Room Cavour  
NOVEL BRAIN IMAGING TECHNOLOGIES

Friday, July 15, 2011

**SPECIAL WORKSHOP SW03** 18:40 - Room Cavour  
YOUNG INVESTIGATOR VISITING PROGRAM (YIP) WORKSHOP

**SPECIAL WORKSHOP SW04** 18:40 - Room Mazzini  
EVENING DISCUSSION WITH PLENARY SPEAKERS I:  
USING PRE- AND POST-DOCTORAL TRAINING TO PREPARE FOR A SUCCESSFUL PROFESSIONAL CAREER

Saturday, July 16, 2011

**SPECIAL WORKSHOP SW05** 18:40 - Room Cavour  
NEUROSCIENCE IN AFRICA: A SAMPLE FROM NORTH, SOUTH, EAST AND WEST AFRICA

**SPECIAL WORKSHOP SW06** 18:40 - Room Mazzini  
EVENING DISCUSSION WITH PLENARY SPEAKERS II:  
HOW TO START YOUR OWN LAB

Sunday, July 17, 2011

**SPECIAL WORKSHOP SW07** 18:40 - Room Mazzini  
EVENING DISCUSSION WITH PLENARY SPEAKERS III:  
SELECTING CREATIVE RESEARCH QUESTIONS

### LIST OF SYMPOSIA

Friday, July 15, 2011

**SYMPOSIUM S01** 09:40 - Auditorium Verdi  
INTEGRATION OF NEW NEURONS IN THE ADULT BRAIN: LESSONS FOR BRAIN REPAIR

**SYMPOSIUM S02** 09:40 - Room Mazzini  
MOLECULAR AND CELLULAR DETERMINANTS OF NEURON/GLIA SPECIFICATION

**SYMPOSIUM S03** 09:40 - Room Cavour  
ELIMINATION OF AMYLOID FROM THE AGEING AND ALZHEIMER DISEASE BRAIN: UNCLOGGING THE DAM

**SYMPOSIUM S04** 09:40 - Room Vittorio Emanuele II  
BLINDSIGHT IN ACTION: RESIDUAL VISUOMOTOR FUNCTIONS AFTER LESIONS OF PRIMARY VISUAL CORTEX

**SYMPOSIUM S05** 09:40 - Room Garibaldi  
COMPUTATIONAL STUDY OF MEMORY INFORMATION PROCESSING: DATA ANALYSIS AND MODELING OF CORTICO-HIPPOCAMPAL INTERACTION

Saturday, July 16, 2011

**SYMPOSIUM S06** 09:40 - Auditorium Verdi  
PUTTING DENDRITES INTO THE BRAIN: NEW APPROACHES TO STUDYING DENDRITIC FUNCTION IN VIVO

**SYMPOSIUM S07** 09:40 - Room Mazzini  
SIGNAL TRANSDUCTION AND CELL BIOLOGY OF GROWTH CONE GUIDANCE

**SYMPOSIUM S08** 09:40 - Room Cavour  
SUBCELLULAR LOCALIZATION AND FUNCTION OF VOLTAGE-GATED ION CHANNELS

# PROGRAM

**SYMPOSIUM S09** 09:40 - Room Vittorio Emanuele II  
PRION BIOLOGY AND PATHOLOGY

**SYMPOSIUM S10** 09:40 - Room Garibaldi  
THE ENDOGENOUS OPIOID SYSTEMS IN PSYCHIATRIC AND  
NEUROLOGICAL DISEASES

Sunday, July 17, 2011

**SYMPOSIUM S11** 09:40 - Auditorium Verdi  
CHROMATIN REMODELING IN NEURAL DEVELOPMENT

**SYMPOSIUM S12** 09:40 - Room Mazzini  
GLIAL AND NEURONAL CONTROL OF BRAIN BLOOD FLOW IN HEALTH  
AND DISEASE

**SYMPOSIUM S13** 09:40 - Room Cavour  
NEW ROLES FOR MELANOPIN PHOTOPIGMENT IN NON-VISUAL AND  
VISUAL FUNCTIONS

**SYMPOSIUM S14** 09:40 - Room Vittorio Emanuele II  
MENTAL AND PHYSICAL ACTIVITY AS MODULATORS OF BRAIN  
FUNCTION AND DISEASE

**SYMPOSIUM S15** 09:40 - Room Garibaldi  
STRESS, PLASTICITY & DRUG-SEEKING

Monday, July 18, 2011

**SYMPOSIUM S16** 09:40 - Auditorium Verdi  
SYNAPTIC AND NETWORK PLASTICITY IN DEVELOPMENT AND  
LEARNING

**SYMPOSIUM S17** 09:40 - Room Mazzini  
REGULATION OF PRESYNAPTIC CALCIUM CHANNEL ACTIVITY

**SYMPOSIUM S18** 09:40 - Room Cavour  
THE ROLE OF SLEEP IN LEARNING AND MEMORY FORMATION: FROM  
MOLECULAR MECHANISMS TO COGNITIVE FUNCTION

**SYMPOSIUM S19** 09:40 - Room Vittorio Emanuele II  
MOTOR NEURONS: FROM DEVELOPMENT TO DISEASE

**SYMPOSIUM S20** 09:40 - Room Garibaldi  
SYNAPTIC PROTEIN NETWORKS IN NEUROLOGICAL AND PSYCHIATRIC  
DISEASES

## LIST OF WORKSHOPS

Friday, July 15, 2011

**WORKSHOP W01** 14:15 - Room Vittorio Emanuele II  
BERGMANN GLIA CELLS IN SYNAPTIC FUNCTION

**WORKSHOP W02** 14:15 - Room Mazzini  
NEXT GENERATION SEQUENCING STRATEGIES IN NEUROGENETICS

**WORKSHOP W03** 14:15 - Room Cavour  
BASAL GANGLIA CONTROL OF SLEEP-WAKE REGULATION

**WORKSHOP W04** 14:15 - Auditorium Verdi  
GENETIC MOUSE MODELS TO UNDERSTAND SCHIZOPHRENIA

**WORKSHOP W05** 14:15 - Room Garibaldi  
ACTIVITY-DEPENDENT TRAFFICKING OF NMDA AND KAINATE  
RECEPTORS IN SYNAPTIC PLASTICITY

**WORKSHOP W06** 15:50 - Room Cavour  
REMODELLING OF NEURAL EXTRACELLULAR MATRIX IN HEALTH AND  
DISEASE

**WORKSHOP W07** 15:50 - Room Mazzini  
NEUROBIOLOGICAL BASIS OF EMERGING THERAPIES IN DRUG  
ADDICTION

**WORKSHOP W08** 15:50 - Room Vittorio Emanuele II  
HABILITATION OF HEARING IN THE 21ST CENTURY

**WORKSHOP W09** 15:50 - Auditorium Verdi  
EPILEPTOGENESIS: MECHANISMS AND PREVENTION

**WORKSHOP W10** 15:50 - Room Garibaldi  
THE PERILS AND PITFALLS OF TRANSLATING COMPLEX BRAIN  
RESEARCH RESULTS FOR PUBLIC UNDERSTANDING

Saturday, July 16, 2011

**WORKSHOP W11** 14:15 - Room Vittorio Emanuele II  
STEM CELLS FOR THE TREATMENT OF SPINAL CORD INJURY: ARE WE  
THERE YET?

**WORKSHOP W12** 14:15 - Room Mazzini  
THE DIVERSE ACTIONS OF ESTROGENS IN HOMEOSTATIC REGULATION

**WORKSHOP W13** 14:15 - Room Cavour  
ODORANTS, RECEPTORS AND GLOMERULI

**WORKSHOP W14** 14:15 - Room Garibaldi  
STRUCTURAL PLASTICITY AND MEMORY

**WORKSHOP W15** 14:15 - Auditorium Verdi  
TRANSCRIPTOMIC AND GENE EXPRESSION APPROACHES TO  
NEUROLOGICAL DISORDERS

**WORKSHOP W16** 15:50 - Room Vittorio Emanuele II  
ENGINEERING RECEPTORS TO INVESTIGATE THE IN VIVO CELL  
SIGNALING CASCADES THAT UNDERLIE PHYSIOLOGY, BEHAVIOUR, AND  
NEUROLOGICAL DISORDERS

**WORKSHOP W17** 15:50 - Room Mazzini  
NICOTINIC MECHANISMS UNDERLYING REWARD, EMOTION AND  
COGNITION



## PROGRAM INFORMATION

**WORKSHOP W18** **15:50 - Room Cavour**  
 PHYSIOLOGICAL ROLES AND ANTIPARKINSONIAN POTENTIAL OF  
 METABOTROPIC GLUTAMATE RECEPTORS IN THE BASAL GANGLIA  
 MOTOR CIRCUIT

**WORKSHOP W19** **15:50 - Auditorium Verdi**  
 STRESS-INDUCED CHANGES IN CORTICO-LIMBIC STRUCTURES

**WORKSHOP W20** **15:50 - Room Garibaldi**  
 COMMUNICATING NEUROSCIENCE TO THE PUBLIC

Sunday, July 17, 2011

**WORKSHOP W21** **14:15 - Room Vittorio Emanuele II**  
 BUILDING CEREBELLAR CIRCUITS: FROM NEURONAL SPECIFICATION  
 TO SYNAPSE FORMATION

**WORKSHOP W22** **14:15 - Room Mazzini**  
 NEURAL MECHANISMS UNDERLYING SPATIAL STABILITY

**WORKSHOP W23** **14:15 - Room Cavour**  
 BDNF AND THE CONTROL OF THE TRANSLATIONAL MACHINERY IN  
 DENDRITES

**WORKSHOP W24** **14:15 - Auditorium Verdi**  
 PRION PROTEIN IN INTRACELLULAR AND INTERCELLULAR SIGNALLING  
 IN THE BRAIN

**WORKSHOP W25** **14:15 - Room Garibaldi**  
 ADVANCES IN OPTICAL IMAGING OF BRAIN FUNCTION

**WORKSHOP W26** **15:50 - Room Vittorio Emanuele II**  
 ASTROCYTES IN PHYSIOLOGY AND PATOHOLOGY

**WORKSHOP W27** **15:50 - Room Mazzini**  
 TEMPORAL STRUCTURE OF SPATIAL MEMORY: ATTRACTOR  
 DYNAMICS OF HIPPOCAMPAL SPATIAL PROCESSING IN HEALTH AND  
 SCHIZOPHRENIA

**WORKSHOP W28** **15:50 - Room Cavour**  
 STRESS AT THE SYNAPSE. HOW BEHAVIORAL STRESS AND  
 CORTICOSTEROIDS MODIFY SYNAPTIC TRANSMISSION AND  
 PLASTICITY

**WORKSHOP W29** **15:50 - Auditorium Verdi**  
 IMMUNE CELL ENTRY AND FUNCTION WITHIN THE CNS: NEW  
 MECHANISMS AND THERAPEUTIC OPPORTUNITIES

**WORKSHOP W30** **15:50 - Room Garibaldi**  
 NEURAL MECHANISMS OF RESPIRATORY RHYTHM GENERATION

Monday, July 18, 2011

**WORKSHOP W31** **14:15 - Room Vittorio Emanuele II**  
 NEUROTRANSMITTER TRANSPORTERS IN SYNAPTIC HOMEOSTASIS

**WORKSHOP W32** **14:15 - Room Mazzini**  
 PROGRAMMING BY STRESSFUL AND ADVERSE EVENTS IN  
 ADOLESCENCE OF ADULT STRESS REACTIVITY, COGNITION AND  
 EMOTIONS

**WORKSHOP W33** **14:15 - Room Cavour**  
 RODENT ULTRASONIC VOCALIZATIONS – INSIGHTS INTO THE SOCIAL  
 BRAIN: BRAIN MECHANISMS, COMMUNICATIVE FUNCTION AND  
 EXPRESSION OF AFFECT

**WORKSHOP W34** **14:15 - Auditorium Verdi**  
 CANNABINOID RECEPTOR SIGNALING AND MODULATION OF  
 MONOAMINERGIC CIRCUITS: IMPLICATIONS FOR BEHAVIOR

**WORKSHOP W35** **14:15 - Room Garibaldi**  
 HOW TO PROPERLY USE ANIMALS IN RESEARCH: CONSIDERATION  
 OF LEVELS OF PAIN, GENETIC BACKGROUND, TRANSGENICS, AND  
 BEHAVIOR

**WORKSHOP W36** **15:50 - Room Vittorio Emanuele II**  
 IONIC TRANSPORTERS AND IONIC CHANNELS AS NEW MOLECULAR  
 TARGETS IN STROKE INTERVENTION

**WORKSHOP W37** **15:50 - Room Mazzini**  
 ADVANCED FUNCTIONAL ANALYSIS OF CEREBELLAR CIRCUITS

**WORKSHOP W38** **15:50 - Room Cavour**  
 SPATIOTEMPORAL PROFILES OF CORTICAL PROCESSING: A VIEW  
 FROM OPTICAL IMAGING STUDIES IN AWAKE, BEHAVING NONHUMAN  
 PRIMATES

**WORKSHOP W39** **15:50 - Auditorium Verdi**  
 NEUROBIOLOGY OF NEGLECTED AFRICAN DISEASES

**WORKSHOP W40** **15:50 - Room Garibaldi**  
 NOVEL GENETIC AND PHARMACOLOGICAL TOOLS PROVIDE NEW  
 INSIGHTS INTO ROLES OF MUSCARINIC ACETYLCHOLINE RECEPTOR  
 SUBTYPES FOR TREATMENT OF CNS DISORDERS



# Congress Overview

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Thursday, July 14

Special Workshops	<p><b>SW01</b> Workshop on communication of research results <b>M</b> (13:30-17:30)</p> <p><b>SW02</b> Novel brain imaging technologies <b>C</b> (13:50-16:00)</p>
Special Feature 15:30-17:00	<b>SINS Special Feature SS1</b> Italian pioneers in neuroscience of the past centuries <b>V</b>
17:30-18:50	<b>Opening Ceremony</b>
Opening Plenary Lecture 19:00-20:00	<b>Opening Plenary Lecture PL1</b> Usefull signals from motor cortex <b>V</b> <b>Andrew B. Schwartz</b> (Pittsburg, USA)
20:00	<b>Welcome Reception</b>

Friday, July 15

<b>Plenary Lectures</b> 08:30-09:30	<b>Plenary Lecture PL2</b> Regulation and function of adult neurogenesis in the hippocampal formation <b>V</b> <b>Fred H. Gage</b> (La Jolla, USA)
<b>Parallel Symposia</b> 09:40-11:40	<p><b>S01</b> Integration of new neurons in the adult brain: lessons for brain repair <b>V</b></p> <p><b>S02</b> Molecular and cellular determinants of neuron glia specification <b>M</b></p> <p><b>S03</b> Elimination of amyloid from the ageing and Alzheimer disease brain: unclogging the dam <b>C</b></p> <p><b>S04</b> Blindsight in action: residual visuomotor functions after lesions of primary visual cortex <b>VE</b></p> <p><b>S05</b> Computational study of memory information processing: data analysis and modeling of cortico-hippocampal interaction <b>G</b></p>
<b>Poster Sessions</b> 11:40-14:15	<b>Poster Session A</b>
<b>Special Events</b> 12:30-14:00	<p><b>SE01</b> Music and brain plasticity: Foundation IPSEN neuronal plasticity prize <b>M</b></p> <p><b>SE02</b> Molecular and systems neurobiology in development and disease: contributions from IBRO alumni worldwide <b>C</b></p> <p><b>SE03</b> SDN-SINS Joint Meeting: Special Lecture 1/ Minisymposium 1 <b>VE</b> (12:00-14:00)</p>
<b>Poster Sessions</b> 11:40-14:15	<b>Poster Session A</b>
<b>Parallel Workshops</b> 14:15-15:45	<p><b>W01</b> Bergmann glia cells in synaptic function <b>VE</b></p> <p><b>W02</b> Next generation sequencing strategies in neurogenetics <b>M</b></p> <p><b>W03</b> Basal ganglia control of sleep-wake regulation <b>C</b></p> <p><b>W04</b> Genetic mouse models to understand schizophrenia <b>V</b></p> <p><b>W05</b> Activity-dependent trafficking of NMDA and kainate receptors in synaptic plasticity <b>G</b></p>
<b>Parallel Workshops</b> 15:50-17:20	<p><b>W06</b> Remodelling of neural extracellular matrix in health and disease <b>C</b></p> <p><b>W07</b> Neurobiological basis of emerging therapies in drug addiction <b>M</b></p> <p><b>W08</b> Habilitation of hearing in the 21st century <b>VE</b></p> <p><b>W09</b> Epileptogenesis: mechanisms and prevention <b>V</b></p> <p><b>W10</b> The perils and pitfalls of translating complex brain research results for public understanding <b>G</b></p>
<b>Plenary Lectures</b> 17:30-18:30	<b>Presidential Plenary Lecture PL3</b> Motivational value in the human brain <b>V</b> <b>Ray J. Dolan</b> (London, UK)
<b>Special Workshops</b> 18:40-19:40	<p><b>SW03</b> Young investigator visiting program (YIP) workshop <b>C</b></p> <p><b>SW04</b> Evening discussion with Plenary Speakers I: Using pre-and post-doctoral training to prepare for a successful professional career <b>M</b></p>

Saturday, July 16

<b>Plenary Lecture PL4</b> Local control of synaptic function <b>V</b> <b>Erin M. Schumann</b> (Frankfurt, Germany)
<p><b>S06</b> Putting dendrites back into the brain: new approaches for studying dendritic function in vivo <b>V</b></p> <p><b>S07</b> Signal transduction and cell biology of growth cone guidance <b>M</b></p> <p><b>S08</b> Subcellular localization and function of voltage-gated ion channels <b>C</b></p> <p><b>S09</b> Prion biology and pathology <b>VE</b></p> <p><b>S10</b> The endogenous opioid systems in psychiatric and neurological diseases <b>G</b></p>
<b>Poster Session B</b>
<p><b>SE04</b> IBRO Symposium: contribution of IBRO to World Neuroscience <b>M</b></p> <p><b>SE05</b> Fine-scale mapping of the developing mouse and human brain <b>C</b></p> <p><b>SE06</b> SDN-SINS Joint Meeting: Minisymposium 2 <b>VE</b></p>
<b>Poster Session B</b>
<p><b>W11</b> Stem cells for the treatment of spinal cord injury: are we there yet? <b>VE</b></p> <p><b>W12</b> The diverse actions of estrogens in homeostatic regulation <b>M</b></p> <p><b>W13</b> Odorants, receptors and glomeruli <b>C</b></p> <p><b>W14</b> Structural plasticity and memory <b>G</b></p> <p><b>W15</b> Transcriptomic and gene expression approaches to neurological disorders <b>V</b></p>
<p><b>W16</b> Engineering receptors to investigate the in vivo cell signaling cascades that underlie physiology, behaviour, and neurological disorders <b>VE</b></p> <p><b>W17</b> Nicotinic mechanisms underlying reward, emotion and cognition <b>M</b></p> <p><b>W18</b> Physiological roles and antiparkinsonian potential of metabotropic glutamate receptors in the basal ganglia motor circuit <b>C</b></p> <p><b>W19</b> Stress-induced changes in cortico-limbic structures <b>V</b></p> <p><b>W20</b> Communicating neuroscience to the public <b>G</b></p>
<b>Plenary Lecture PL5</b> The neurobiology of pain and its control <b>V</b> <b>Allan I. Basbaum</b> (San Francisco, USA)
<p><b>SW05</b> Neuroscience in Africa: a sample from North, South, East and West Africa <b>C</b></p> <p><b>SW06</b> Evening discussion with Plenary Speakers II: How to start your own lab <b>M</b></p>

LEGENDA

- C** ROOM CAVOUR
- G** ROOM GARIBALDI
- M** ROOM MAZZINI
- V** AUDITORIUM VERDI
- VE** ROOM VITTORIO EMANUELE II

## Sunday, July 17

## Monday, July 18

<b>Plenary Lectures</b> 08:30-09:30	<b>Plenary Lecture PL6</b> Visualizing circuits in the developing visual system <b>V</b> <b>Joshua R. Sanes</b> (Harvard, USA)
<b>Parallel Symposia</b> 09:40-11:40	<b>S11</b> Chromatin remodeling in neural development <b>V</b> <b>S12</b> Glial and neuronal control of brain blood flow in health and disease <b>M</b> <b>S13</b> New roles for melanopsin photopigment in non-visual and visual functions <b>C</b> <b>S14</b> Mental and physical activity as modulators of brain function and disease <b>VE</b> <b>S15</b> Stress, plasticity & drug-seeking <b>G</b>
<b>Poster Sessions</b> 11:40-14:15	<b>Poster Session C</b>
<b>Special Events</b> 12:30-14:00	<b>SE07</b> Into the brain of patient H.M. - computerized anatomical examination of a notable case of amnesia <b>M</b> <b>SE08</b> Ethics of scientific publishing - Why does it matter? Advice from editors of neuroscience journals. SfN (USA) and IBRO workshop <b>C</b> (12:00-14:00) <b>SE09</b> Meeting Japanese Neuroscientists <b>G</b> <b>SE10</b> SDN-SINS Joint Meeting: Minisymposium 3 <b>VE</b>
<b>Poster Sessions</b> 11:40-14:15	<b>Poster Session C</b>
<b>Parallel Workshops</b> 14:15-15:45	<b>W21</b> Building cerebellar circuits: from neuronal specification to synapse formation <b>VE</b> <b>W22</b> Neural mechanisms underlying spatial stability <b>M</b> <b>W23</b> BDNF and the control of the translational machinery in dendrites <b>C</b> <b>W24</b> Prion protein in intracellular and intercellular signalling in the brain <b>V</b> <b>W25</b> Advances in optical imaging of brain function <b>G</b>
<b>Parallel Workshops</b> 15:50-17:20	<b>W26</b> Astrocytes in physiology and pathology <b>VE</b> <b>W27</b> Temporal structure of spatial memory: attractor dynamics of hippocampal spatial processing in health and schizophrenia <b>M</b> <b>W28</b> Stress at the synapse. How behavioral stress and corticosteroids modify synaptic transmission and plasticity <b>C</b> <b>W29</b> Immune cell entry and function within the CNS: new mechanisms and therapeutic opportunities <b>V</b> <b>W30</b> Neural mechanisms of respiratory rhythm generation <b>G</b>
<b>Plenary Lectures</b> 17:30-18:30	<b>Plenary Lecture PL7</b> Molecular genetics of neurodegenerative dementias <b>V</b> <b>Christine van Broeckhoven</b> (Antwerpen, Belgium)
<b>Special Workshops</b> 18:40-19:40	<b>SW07</b> Evening discussion with Plenary Speakers III: Selecting creative research questions <b>M</b>

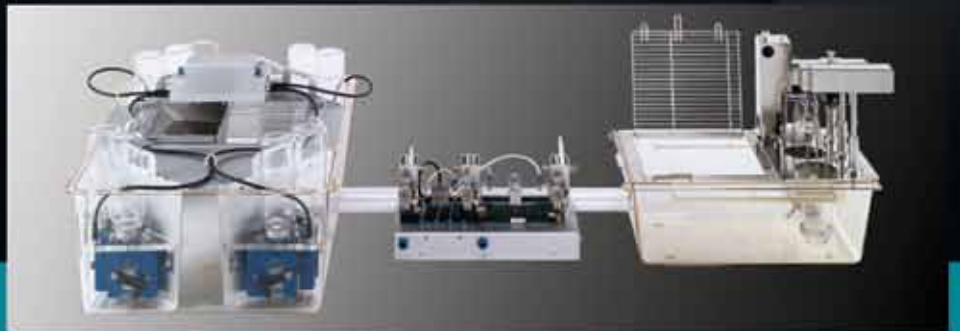
<b>Plenary Lecture PL8</b> Defining the neuronal circuitry of fear <b>V</b> <b>Andreas Lüthi</b> (Basel, Switzerland)
<b>S16</b> Synaptic and network plasticity in development and learning <b>V</b> <b>S17</b> Regulation of presynaptic calcium channel activity <b>M</b> <b>S18</b> The role of sleep in learning and memory formation: from molecular mechanisms to cognitive function <b>C</b> <b>S19</b> Motor neurons: from development to disease <b>VE</b> <b>S20</b> Synaptic protein networks in neurological and psychiatric diseases <b>G</b>
<b>Poster Session D</b>
<b>SE11</b> ICSU, the international council for science: science and the use of scientific knowledge (12:30-13:30) <b>M</b> <b>SE12</b> Funding opportunities and grant writing primer women in world neuroscience (WWN) workshop <b>C</b> <b>SE13</b> FENS/JNS/IBRO/SfN symposium on legal trends on the use of animals in research across the world <b>G</b> <b>SE14</b> SDN-SINS Joint Meeting: Special Lecture 2/Minisymposium 4 <b>VE</b> (12:00-14:00)
<b>Poster Session D</b>
<b>W31</b> Neurotransmitter transporters in synaptic homeostasis <b>VE</b> <b>W32</b> Programming by stressful and adverse events in adolescence of adult stress reactivity, cognition and emotions <b>M</b> <b>W33</b> Rodent ultrasonic vocalizations - insights into the social brain: brain mechanisms, communicative function and expression of affect <b>G</b> <b>W34</b> Cannabinoid receptor signaling and modulation of monoaminergic circuits: implications for behavior <b>V</b> <b>W35</b> How to properly use animals in research: consideration of levels of pain, genetic background, transgenics, and behavior <b>G</b>
<b>W36</b> Ionic transporters and ionic channels as new molecular targets in stroke intervention <b>VE</b> <b>W37</b> Advanced functional analysis of cerebellar circuits <b>M</b> <b>W38</b> Spatiotemporal profiles of cortical processing: a view from optical imaging studies in awake, behaving nonhuman primates <b>C</b> <b>W39</b> Neurobiology of neglected African diseases <b>V</b> <b>W40</b> Novel genetic and pharmacological tools provide new insights into roles of muscarinic acetylcholine receptor subtypes for treatment of CNS disorders <b>G</b>
<b>Closing Plenary Lecture PL9</b> Optogenetics: development and application <b>V</b> <b>Karl Deisseroth</b> (Stanford, USA)

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**Scientific Program**  
**Thursday July 14**



**13:30-17:30 SPECIAL WORKSHOP SW01**

**Room Mazzini**

**WORKSHOP ON COMMUNICATION OF RESEARCH RESULTS**

Chaired by: **Michael J. Zigmond** (Pittsburgh, USA) and **Beth A. Fischer** (Pittsburgh, USA)

Presenting findings in scientific meetings and peer-reviewed journals are essential components of scientific research and career development. In this workshop we will provide an overview of effective communications. In our overview of *scientific papers*, our discussion will include the structure and preparation of a manuscript, selection of authors, the preparation of tables and figures, and responding to reviewers. Our discussion of *oral presentations* will include the structure, preparation, and delivery of a research seminar and the use of PowerPoint to make effective slides. Relevant aspects of responsible conduct will be considered throughout, including fabrication and falsification of data, plagiarism, and the sharing of essential reagents. Handouts of all major slides, cases, and a bibliography will be provided. This workshop will be of value to individuals at all stages of their career, including those interested in gaining insights into how to train others.

**13:50-16:00 SPECIAL WORKSHOP SW02**

**Room Cavour**

**NOVEL BRAIN IMAGING TECHNOLOGIES**

Chaired by: **Francesco S. Pavone** (Florence, Italy)

13:50

Opening and welcome

**Francesco S. Pavone** (Florence, Italy)

SW02.1 - 14:00

Strategies to understanding the human brain

**Henry Markram** (Lausanne, Switzerland)

SW02.2 - 14:30

Visualization of neuronal networks in the mouse brain and mouse embryos by ultramicroscopy

**Hans Ulrich Dodt** (Wien, Austria)

SW02.3 - 15:00

Advances in correlative light and 3d electron microscopy for studying cell structure

**Graham Knott** (Lausanne, Switzerland)

SW02.4 - 15:30

Non linear morphofunctional imaging of neural networks

**Francesco S. Pavone** (Florence, Italy)

**15:30-17:00 SINS SPECIAL FEATURE SS1**

**Auditorium Verdi**

**ITALIAN PIONEERS IN NEUROSCIENCE OF THE PAST CENTURIES**

Chaired by: **Pierfranco Spano** (Brescia, Italy) and **Piergiorgio Strata** (Turin, Italy)

SS1.1 - 15:35

Luigi Galvani: The dawn of electrophysiology

**Marco Piccolino** (Ferrara, Italy)

SS1.2 - 15:55

From Golgi's black to rainbow colors: unravelling the secrets of stained neurons

**Marina Bentivoglio** (Verona, Italy)

SS1.3 - 16:15

Giuseppe Moruzzi: The discovery of the ascending reticular system

**Giovanni Berlucchi** (Verona, Italy)

SS1.4 - 16:35

Vittorio Erspamer: A pioneer in the discovery of serotonin and neuropeptides

**Lucia Negri** (Rome, Italy)

**17:30-18:50 OPENING CEREMONY**

**Auditorium Verdi**

Chaired by: **Gaetano Di Chiara** (President, IBRO 2011 Local Organizing Committee)

**WELCOME**

**Gaetano Di Chiara** (President, IBRO 2011 Local Organizing Committee)

**Lucio Annunziato** (President, Italian Society of Neuroscience)

**Academic and City Authorities**

**Pierre Magistretti** (IBRO, Secretary General)

**IBRO 50<sup>th</sup> ANNIVERSARY**

**Carlos Belmonte** (President, IBRO)

**EDAB-IBRO PRESIDENTIAL LECTURE**

Fifty Years of IBRO

**Albert J. Aguayo** (Montreal, Canada)

Presentation of Awards to IBRO Past Presidents, Secretary Generals and Treasurers

**19:00-20:00 OPENING PLENARY LECTURE PL1**

**Auditorium Verdi**

Introduced by **Alexa Riehle** (Marseille, France)

Useful signals from motor cortex

**Andrew B. Schwartz** (Pittsburgh, USA)

**20:00 WELCOME RECEPTION**

**Scientific Program**

**Friday July 15**



NEUROSCIENCE  
2011



SOCIETY FOR NEUROSCIENCE

# Washington, DC

November 12–16, 2011

More than 30,000 attendees from over 75 countries expected.

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Nonmember registration opens July 19.

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## 08:30-09:30 PLENARY LECTURE PL2

Auditorium Verdi

Introduced by: **Roberto Lent** (Rio de Janeiro, Brazil)

Regulation and function of adult neurogenesis in the hippocampal formation

**Fred H. Gage** (La Jolla, USA)

## 09:40-11:40 SYMPOSIUM S01

Auditorium Verdi

**INTEGRATION OF NEW NEURONS IN THE ADULT BRAIN: LESSONS FOR BRAIN REPAIR**

**SPONSORED BY THE COMPANY OF BIOLOGISTS AND ABCAM**

Chaired by: **Alejandro Fabian Schinder** (Buenos Aires, Argentina)

S01.1 - 09:40

Temporal expression of neurotrophin receptors regulates newborn neuron integration into hippocampal circuits

**Marco Canossa** (Genoa, Italy)

S01.2 - 10:10

Local network activity controls maturation and functional integration of adult-born hippocampal neurons

**Alejandro Fabian Schinder** (Buenos Aires, Argentina)

S01.3 - 10:40

Molecular development of projection neuron types and building of local microcircuitry in the cerebral cortex

**Paola Arlotta** (Cambridge, USA)

S01.4 - 11:10

Voluntary versus forced metamorphosis of astroglia into neurons

**Benedikt Berninger** (Munich, Germany)

## 09:40-11:40 SYMPOSIUM S02

Room Mazzini

**MOLECULAR AND CELLULAR DETERMINANTS OF NEURON/GLIA SPECIFICATION**

Chaired by: **Flávia Carvalho Alcantara Gomes** (Rio de Janeiro, Brazil)

S02.1 - 09:40

Glial cells generating neurons: molecular and cellular mechanisms

**Magdalena Gotz** (Munich, Germany)

S02.2 - 10:10

Radial glial polarity and its contributions to neuronal migration in cerebral cortex

**Eva Anton** (Chapel Hill, USA)

S02.3 - 10:40

Intra- and extra-cellular factors regulating neural stem cell differentiation during brain development

**Kinichi Nakashima** (Ikoma, Japan)

S02.4 - 11:10

Cellular determinants of radial glia commitment and astrocyte differentiation: implications for synapse formation

**Flávia Carvalho Alcantara Gomes** (Rio de Janeiro, Brazil)

## 09:40-11:40 SYMPOSIUM S03

Room Cavour

**ELIMINATION OF AMYLOID FROM THE AGEING AND ALZHEIMER DISEASE BRAIN: UNCLOGGING THE DAM**

Chaired by: **Roy Weller** (Southampton, UK)

S03.1 - 09:40

The prion-like aspect of cerebral amyloidosis

**Yvonne Eisele** (Tubingen, Germany)

S03.2 - 10:10

The role of perivascular drainage in ageing

**Roxana Octavia Carare** (Southampton, UK)

S03.3 - 10:40

Immunotherapy in Alzheimer's Disease

**James Nicoll** (Southampton, UK)

S03.4 - 11:10

Dissolving the fibrils and targeting the phagocytes of the Alzheimer's brain

**JoAnne McLaurin** (Toronto, Canada)

## 09:40-11:40 SYMPOSIUM S04

Room Vittorio Emanuele II

**BLINDSIGHT IN ACTION: RESIDUAL VISUOMOTOR FUNCTIONS AFTER LESIONS OF PRIMARY VISUAL CORTEX**

Chaired by: **Carlo Alberto Marzi** (Verona, Italy)

S04.1 - 09:40

Goal-directed grasping and obstacle avoidance after lesions of V1

**Melvyn Goodale** (London, Canada)

S04.2 - 10:10

Disynaptic routes from superior colliculus to dorsal stream visual areas

**Ed Callaway** (La Jolla, USA)

S04.3 - 10:40

Sensory-motor blindsight in the physical and social world

**Beatrice de Gelder** and **Marco Tamietto** (Tilburg, The Netherlands)

S04.4 - 11:10

Is blindsight mediated by the lesioned or the intact hemisphere?

**Carlo Alberto Marzi** (Verona, Italy)

## 09:40-11:40 SYMPOSIUM S05

Room Garibaldi

**COMPUTATIONAL STUDY OF MEMORY INFORMATION PROCESSING: DATA ANALYSIS AND MODELING OF CORTICO-HIPPOCAMPAL INTERACTION**

Chaired by: **Masami Tatsuno** (Lethbridge, Canada)

S05.1 - 09:40

Cortical reactivation of recent neuronal activity patterns in the subsequent sleep is related to hippocampal activity

**Francesco Battaglia** (Amsterdam, The Netherlands)

S05.2 - 10:10

Memory reactivation during slow-wave sleep and REM sleep

**Masami Tatsuno** (Lethbridge, Canada)



S05.3 - 10:40

Rhythmic modulation of theta oscillations supports encoding of spatial and behavioural information in the rat hippocampus

**Colin Molter** (Lausanne, Switzerland)

S05.4 - 11:10

Dynamical representation of environments in the brain

**Yoko Yamaguchi** (Wako, Japan)

#### 11:40-14:15 POSTER SESSION A

Poster Area

(see detail page 46)

Posters should be placed on the boards from 9:30 on each day and removed by 17:30. No responsibility will be taken for posters which are left behind. **Posters will be attended by the Presenting Author from 11:40 to 14:15 on each day.**

The poster boards are numbered and adhesive material will be available at each board (please do not use drawing pins or thumbtacks). **The number of the abstract corresponds to the number of the poster panel.**

The Posters for **Topic 20 (History, teaching, neuroethics, awareness & social impact)** will be on display for the entire period of the congress (from Friday, July 15 to Monday, July 18) and will be attended by the Presenting Author from 11:40 to 14:15 on the first day, Friday, July 15.

**Italian Society of Neuroscience (Young Investigator Visiting Programme) Poster Prize:** The best posters by participants from low-income countries will be selected each day by a Selection Committee and awarded at the late afternoon Plenary Lecture at 17:30 of each day.

01. Nervous system development & developmental disorders (Migration, differentiation & plasticity)
03. Glia (Schwann cells & oligodendrocytes)
05. Neurogenetics
06. Excitable membranes & ion channels (Pharmacology & disease)
07. Synaptic transmission & signal transduction (Physiology)
08. Neural plasticity (Signalling & synaptic plasticity I)
09. Neuroendocrine & autonomic regulation (Cardiovascular & body weight regulation)
10. Pain (Neuropathic pain)
11. Sensory systems (Visual systems)
13. Learning & memory (Neurochemistry & neurobiology)
14. Cognition & emotion (General, pharmacology & toxicology)
15. Neurodegeneration & aging (Alzheimer's disease)
16. Neurological disorders (Parkinson & neurodegenerative disorders)
17. Psychiatric & behavioural disorders (Depression & bipolar disorder)
20. History, teaching, neuroethics, awareness & social impact

#### 12:30-14:00 SPECIAL EVENT SE01

Room Mazzini

**MUSIC AND BRAIN PLASTICITY: FOUNDATION IPSEN NEURONAL PLASTICITY PRIZE**

Chaired by: **Nikos Logothetis** (Tuebingen, Germany) and **Yves Christen** (Paris, France)

SE01.1 - 12:30

How can musical training improve neurocognitive functions?

**Helen Neville** (Eugene, USA)

SE01.2 - 13:00

When the brain is out of tune: from behavior to genes

**Isabelle Peretz** (Montreal, Canada)

SE01.3 - 13:30

Music in the Brain: Pitch, Plasticity, Imagery and Emotion

**Robert Zatorre** (Montreal, Canada)

#### 12:30-14:00 SPECIAL EVENT SE02

Room Cavour

**MOLECULAR AND SYSTEMS NEUROBIOLOGY IN DEVELOPMENT AND DISEASE: CONTRIBUTIONS FROM IBRO ALUMNI WORLDWIDE**

Chaired by: **Susan J. Sara** (Paris, France) and **Pierre Magistretti** (Lausanne, Switzerland)

SE02.1 - 12:35

Herbal compounds in the treatment of drug abuse: Fruit essential oil of *Cuminum cyminum* attenuates morphine-induced conditioned place preference

**Abbas Haghparast** (Teheran, Iran)

SE02.2 - 12:55

Herbal compounds in the treatment of psychiatric disorders: The aqueous extract of leaves of *Ptilostigma reticulatum* possesses anxiolytic and antipyretic activity in mice

**Elisabeth Ngo Bum** (Ngaoundere, Cameroon)

SE02.3 - 13:15

In search of organizing principles during synapse elimination: Correlation between motoneuron size and position at spinal cord and motor unit innervation patterns

**Cristina Guatimosim** (Belo Horizonte, Brazil)

SE02.4 - 13:35

Molecular architecture of the hippocampal dendritic spine

**Bence Racz** (Budapest, Hungary)

#### 12:00-14:00 SPECIAL EVENT SE03

Room Vittorio Emanuele II

**JOINT MEETING BETWEEN THE FRENCH AND ITALIAN NEUROSCIENCE SOCIETIES**

#### SDN-SINS SPECIAL LECTURE 1

Introduced by: **Giambattista Bonanno** (Genoa, Italy)

SE03.1 - 12:00

Wiring the brain: getting rid of unwanted synapses

**Cornelius Gross** (Monterotondo, Italy)

#### SDN-SINS MINISYMPOSIUM 1

**NOVEL TARGETS IN DRUG ADDICTION**

Chaired by: **Gaetano Di Chiara** (Cagliari, Italy) and **Philippe Rondard** (Montpellier, France)

SE03.2 - 12:35

An update on the role of nucleus accumbens shell dopamine in reward and addiction

**Gaetano Di Chiara** (Cagliari, Italy)

SE03.3 - 12:55

Addiction, stress and transcription, dissecting the role of the glucocorticoid receptor gene function in dopaminergic pathway

**François Tronche** (Paris, France)

SE03.4 - 13:15

Activators of the Peroxisome Proliferator-Activated Receptors as a new medication for addiction treatment

**Roberto Ciccocioppo** (Camerino, Italy)

SE03.5 - 13:35

GABA<sub>B</sub> receptor: a complex allosteric machine to tune up synaptic transmission

**Philippe Rondard** (Montpellier, France)

## 14:15-15:45 WORKSHOP W01

Room Vittorio Emanuele II

### BERGMANN GLIA CELLS IN SYNAPTIC FUNCTION

Chaired by: **Arturo Ortega** (Mexico City, Mexico)

W01.1 - 14:20

Insights into the biological roles of Bergmann glia by transcriptional profiling

**Gabriel Corfas** (Boston, USA)

W01.2 - 14:40

Plasticity of neuron to Bergmann glial cell transmission

**Tomas Bellamy** (Cambridge, UK)

W01.3 - 15:00

The role of Bergmann glia for purinergic modulation of the cerebellar network

**Joaquim Deitmer** (Kaiserslautern, Germany)

W01.4 - 15:20

Translational control of Bergmann glia/neuronal coupling

**Arturo Ortega** (Mexico City, Mexico)

## 14:15-15:45 WORKSHOP W02

Room Mazzini

### NEXT GENERATION SEQUENCING STRATEGIES IN NEUROGENETICS

Chaired by: **Guy A. Rouleau** (Montreal, Canada)

W02.1 - 14:20

Personal genome analyses to elucidate the molecular pathogenesis of neurodegenerative diseases

**Shoji Tsuji** (Tokyo, Japan)

W02.2 - 14:40

Using next generation sequencing to identify candidate genes for neurogenetic disorders

**Iscia Lopez-Cendes** (Campinas, Brazil)

W02.3 - 15:00

Is exome sequencing the answer for definitive molecular diagnosis of the many rare hereditary neuropathies?

**Garth Nicholson** (Sydney, Australia)

W02.4 - 15:20

Next sequencing generation in rare monogenic disorders: An experience in spinocerebellar degenerations

**Alexis Brice** (Paris, France)

## 14:15-15:45 WORKSHOP W03

Room Cavour

### BASAL GANGLIA CONTROL OF SLEEP-WAKE REGULATION

Chaired by: **Yoshihiro Urade** (Osaka, Japan)

W03.1 - 14:20

Sources and actions of adenosine in the basal ganglia

**Bertil Fredholm** (Stockholm, Sweden)

W03.2 - 14:40

The role of adenosine A2A receptors in the nucleus accumbens for sleep-wake regulation

**Michael Lazarus** (Osaka, Japan)

W03.3 - 15:00

Dopamine D2 receptors in the basal ganglia are essential in the maintenance of wakefulness

**Zhi-Li Huang** (Shanghai, China)

W03.4 - 15:20

Basal forebrain networks and sleep-wake regulation

**Patrick Fuller** (Boston, USA)

## 14:15-15:45 WORKSHOP W04

Auditorium Verdi

### GENETIC MOUSE MODELS TO UNDERSTAND SCHIZOPHRENIA

Chaired by: **Raul R. Gainetdinov** (Genoa, Italy)

W04.1 - 14:20

Mouse models for genes associated with risk for psychosis: a platform for identification of novel antipsychotic targets

**Colm O'Tuathaigh** (Dublin, Ireland)

W04.2 - 14:40

DISC1 mouse models of schizophrenia: a comparative analysis and future developments

**Yavuz Ayhan** (Ankara, Turkey)

W04.3 - 15:00

Role of the glutamatergic system in response to stress in animal models of schizophrenia

**Fabio Fumagalli** (Milan, Italy)

W04.4 - 15:20

Animal models to identify therapeutic mechanisms of antipsychotics

**Jean-Martin Beaulieu** (Quebec, Canada)

## 14:15-15:45 WORKSHOP W05

Room Garibaldi

### ACTIVITY-DEPENDENT TRAFFICKING OF NMDA AND KAINATE RECEPTORS IN SYNAPTIC PLASTICITY

Chaired by: **R. Suzanne Zukin** (New York, USA)

W05.1 - 14:20

Regulation of NMDA receptor trafficking by palmitoylation

**Richard L. Huganir** (Baltimore, USA)

W05.2 - 14:40

SNAP25 is a target of PKC phosphorylation critical to NMDA receptor trafficking

**R. Suzanne Zukin** (New York, USA)



W05.3 - 15:00

A role for SNAP25 in kainate receptor internalization and synaptic plasticity

**Juan Lerma** (Alicante, Spain)

W05.4 - 15:20

Bidirectional plasticity expressed by NMDA receptors at hippocampal mossy fiber synapses

**Pablo E. Castillo** (New York, USA)

**15:50-17:20 JOINT IBRO AND COST WORKSHOP W06** Room Cavour  
**REMODELLING OF NEURAL EXTRACELLULAR MATRIX IN HEALTH AND DISEASE**

Chaired by: **Alexander Dityatev** (Genoa, Italy)

W06.1 - 15:55

Extracellular matrix of perineuronal nets and neuroplasticity

**Alexander Dityatev** (Genoa, Italy)

W06.2 - 16:15

Matrix metalloproteinase MMP-9 in synaptic plasticity, epileptogenesis and drug addiction

**Leszek Kaczmarek** (Warsaw, Poland)

W06.3 - 16:35

The neurotrophin/agrin system - its roles in mental retardation and activity-dependent structural plasticity in the CNS

**Peter Sonderegger** (Zurich, Switzerland)

W06.4 - 16:55

Plasminogen activating system in post-injury recovery and epileptogenesis

**Asla Pitkanen** (Kuopio, Finland)

**15:50-17:20 WORKSHOP W07** Room Mazzini  
**NEUROBIOLOGICAL BASIS OF EMERGING THERAPIES IN DRUG ADDICTION**

Chaired by: **Marco Diana** (Sassari, Italy)

W07.1 - 15:55

The dopamine hypothesis of drug addiction

**Marco Diana** (Sassari, Italy)

W07.2 - 16:15

The human dopamine system in addiction

**Diana Martinez** (New York, USA)

W07.3 - 16:35

Interaction between 5-HT and DA in relation to the treatment of psychostimulant dependence

**Valentina Valentini** (Cagliari, Italy)

W07.4 - 16:55

Environmental stimulation to treat addiction: insights into the neurobiological mechanisms

**Nathalie Thiriet** (Poitiers, France)

**15:50-17:20 WORKSHOP W08** Room Vittorio Emanuele II  
**HABILITATION OF HEARING IN THE 21ST CENTURY**

Chaired by: **Neil Segil** (Seattle, USA)

W08.1 - 15:55

Challenges for hair cell regeneration as a therapy for deafness

**Andrew Forge** (London, UK)

W08.2 - 16:15

Novel therapies for noise-induced hearing loss based on the actions of insulin-like growth factor 1 and transforming growth factor  $\beta$ 2

**Isabel Varela-Nieto** (Madrid, Spain)

W08.3 - 16:35

Can we stimulate proliferation of mature inner ear supporting cells by manipulation of the cell cycle machinery? Implications in hair cell regeneration

**Ulla Pirvola** (Helsinki, Finland)

W08.4 - 16:55

Can we restore lost hearing? Development and regeneration of the inner ear

**Neil Segil** (Los Angeles, USA)

**15:50-17:20 WORKSHOP W09** Auditorium Verdi  
**EPILEPTOGENESIS: MECHANISMS AND PREVENTION**

Chaired by: **Christophe Bernard** (Marseille, France)

W09.1 - 15:55

Epigenetic factor mediate HCN1 channelopathy

**Christophe Bernard** (Marseille, France)

W09.2 - 16:15

T-type calcium channel upregulation as a pro-epileptogenic factor

**Albert Becker** (Bonn, Germany)

W09.3 - 16:35

Preventing epileptogenesis: anti-inflammatory strategy

**Paolo Fabene** (Verona, Italy)

W09.4 - 16:55

Preventing epileptogenesis: growth factors strategy

**Michele Simonato** (Ferrara, Italy)

**15:50-17:20 WORKSHOP W10** Room Garibaldi  
**THE PERILS AND PITFALLS OF TRANSLATING COMPLEX BRAIN RESEARCH RESULTS FOR PUBLIC UNDERSTANDING**

Chaired by: **Peter Jeffrey Snyder** (Providence, USA)

W10.1 - 15:55

Neurologic heuristics and artistic whimsy: the cerebral cartography of Wilder Penfield

**Peter Jeffrey Snyder** (Providence, USA)

W10.2 - 16:15

Neurosurgical evolution and the media

**Dennis Spencer** (New Haven, USA)

W10.3 - 16:35

Asymmetries of the brain: the right and the wrong

**Giorgio Vallortigara** (Rovereto, Italy)

W10.4 - 16:55

The translation of complex stories in neuroscience into "Take Home Messages": a general summary and synthesis

**Linda Mayes** (New Haven, USA)

## 17:30-18:30 PLENARY LECTURE PL3

Auditorium Verdi

### PRESIDENTIAL LECTURE

Introduced by: **Gaetano Di Chiara** (Cagliari, Italy)

Motivational value in the human brain

**Ray J. Dolan** (London, UK)

## 18:40-19:40 SPECIAL WORKSHOP SW03

Room Cavour

### YOUNG INVESTIGATOR VISITING PROGRAM (YIP) WORKSHOP

Chaired by: **Micaela Morelli** (Cagliari, Italy), **Laurent Fagni** (Montpellier, France) and **Marina Pizzi** (Brescia, Italy)

SW03.1 - 18:40

Regulation of phosphatidylcholine-derived signaling during oxidative stress. Participation of synaptic membrane rafts

**Melina V. Mateos** (Bahia Blanca, Argentina)

SW03.2 - 18:55

The relationship between medial temporal lobe and cortical volumetric measurements and metabolic activity in Alzheimer's Disease, mild cognitive impairment, and controls

**Yasmine Said** (Cairo, Egypt)

SW03.3 - 19:10

Role of PARP inhibitor, 3-aminobenzamide in the mechanism of programmed neuronal necrosis in Neuro A2 cells under tert-BOOH induced oxidative stress

**Vijaya K.M. Prakash** (Chennai, India)

SW03.4 - 19:25

Combined oxaloacetate mediated glutamate scavenging and dehydroepiandrosterone treatment decreases neuronal loss and restores impaired synaptic plasticity after ischemic stroke

**Janos Fuzik** (Szeged, Hungary)

## 18:40-19:40 SPECIAL WORKSHOP SW04

Room Mazzini

### EVENING DISCUSSION WITH PLENARY SPEAKERS I: USING PRE- AND POST-DOCTORAL TRAINING TO PREPARE FOR A SUCCESSFUL PROFESSIONAL CAREER

Chaired by: **Michael J. Zigmond** (Pittsburgh, USA) and **Beth A. Fischer** (Pittsburgh, USA)

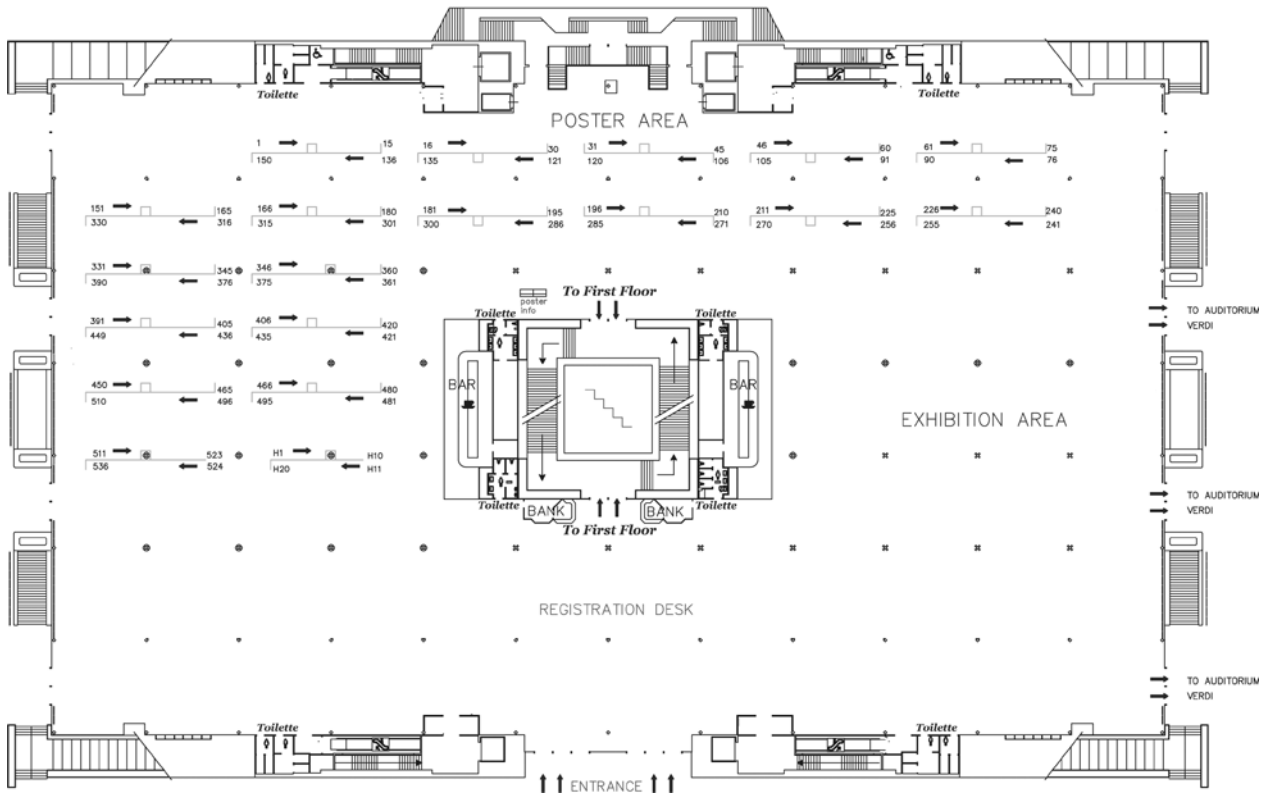
Participants will include **Allan Basbaum** (San Francisco, USA) and **Christine van Broeckhoven** (Antwerp, Belgium)

We will discuss how to optimize your time as a graduate student and a postdoctoral fellow as you prepare to move forward in your career. Considerations will include: How long should your training take? One postdoc or two? How many publications do you need at each stage? Can you switch your focus between grad school and a postdoc? What are the critical characteristics of a good research advisor? What do you do if it starts to go wrong? Trainees and mentors are invited to join in the discussion.



## POSTER PRESENTATION

### Pavilion A - Ground Floor - Poster Area



Friday July 15

- |   |   |
|---|---|
| <p><b>01.</b> Nervous system development &amp; developmental disorders (Migration, differentiation &amp; plasticity)</p>  | <p><b>A006</b> Transcription factor initiation cascade maintains gene expression in the adult nervous system<br/><u>K.T. EADE</u>, H. FANCHER, M. RIDYARD &amp; D. ALLAN</p>  |
| <p><b>A001</b> Molecular pathways mediating the pro-migratory activity of Rnd small GTPases in cortical neuronal migration<br/><u>R. AZZARELLI</u>, E. PACARY &amp; F. GUILLEMOT</p>                          | <p><b>A007</b> Comparative analysis and functional implications of ligand dependent changes in estrogen- and thyroid hormone receptor expression in the developing cerebellum<br/><u>L. TOTH</u>, T.J. SCALISE, A. GYORFFY, D.S. KISS, V. SOMOGYI, G. GOSZLETH, T. BARTHA, L.V. FRENYO &amp; A. ZSARNOVSZKY</p> |
| <p><b>A002</b> Role of N-cadherin in cortical interneuron migration during brain development<br/><u>C. LUCCARDINI</u>, L. HENNEKINE, L. VIU, J.-P. RIO, R.-M. MÈGE &amp; C. MÉTIN</p>                         | <p><b>A008</b> Maturation of sleep homeostasis in the rat: a role for oreoptic area neurons<br/><u>I. GVILIA</u>, D. MCGINTY &amp; R. SZYMUSIAK</p>   |
| <p><b>A003</b> Glycine receptor activation influence early cortical development<br/><u>A. AVILA MACAYA</u>, L. NGUYEN &amp; J.-M. RIGO</p>  | <p><b>A009</b> Role of the post-synaptic protein Neurogranin during olfactory bulb ontogenesis: implications for tufted cell maturation<br/><u>S. GRIBAUDO</u>, S. BOVETTI, A. PIGNATELLI, O. BELLUZZI, A. FASOLO &amp; S. DE MARCHIS</p>   |
| <p><b>A004</b> CoREST/LSD1 regulate the migration and differentiation of cortical neurons during development<br/><u>P. FUENTES</u>, J. CÁNOVAS, F.A. BERNDT, Y. FUENTEALBA, S.C. NOCTOR &amp; M. KUKULJAN</p> | <p><b>A010</b> NOGO-A/NgR signalling regulates neuroblast migration and cellular interactions in the SVZ-RMS system<br/><u>C. ROLANDO</u>, E. BODA, M.E. SCHWAB, F. ROSSI &amp; A. BUFFO</p>  |
| <p><b>A005</b> Brain development abnormality and axon regeneration in the mice lacking in the enzymes synthesizing chondroitin sulfate<br/><u>K. TAKEUCHI</u>, S. HIGA, H. KAWANO &amp; M. IGARASHI</p>       |   |

- A011** The expression level of Eps8 modulates the migratory activity of neural progenitors expressing ErbB4  
G. GAMBAROTTA, F. FREGNAN, S. DE MARCHIS, D. GARZOTTO, N. OFFENHÄUSER & I. PERROTEAU
- A012** Mash1 regulates microtubules and centrosome proteins important for neuronal migration  
P. GARCEZ, V. RAMESH, D. CASTRO, D. BELL & F. GUILLEMOT
- A013** Erythropoietin drives neurodifferentiation in the hippocampus of healthy mice  
L. DAHM, I. HASSOUNA, N. OFFEN, S. SPERLING, R. NEHER, K. HANNKE, M. MITKOVSKI, N. HAGEMEYER, M. DITTRICH, T. DANDEKAR, E. NEHER, A.-L. SIRÉN & H. EHRENREICH
- A014** Foxp2 is a novel target of microRNA-9 and its repression is required for proper neuronal migration in developing mouse neocortex  
Y.M. CLOVIS, W. ENARD, W.B. HUTTNER & D. DE PIETRI TONELLI
- A015** Immunohistochemical investigation of the developing subventricular zone situated in the lateral ventricle in rat brain  
I. ADORJAN, V. GERGELY, E. KANI & M. KALMAN
- A016** Dopamine D2 receptor activity modulates Akt signaling and alters GABAergic neuron development and motor behavior in zebrafish larvae  
B.R. SOUZA, M.A. ROMANO-SILVA & V. TROPEPE
- A017** Neuroprotection by physical activity  
A. MITCHELL
- A018** Enriched early life experiences and reduced anxiety-like behaviour in the adult: a role for IGF-1  
S. BALDINI, N. BERARDI, M. COLTELLI, R. FRANCO & L. MAFFEI
- A019** Early exercise promotes positive hippocampal plasticity and improves spatial memory in the adult life of rats  
S. GOMES DA SILVA, N. UNSAIN, D.H. MASCÓ, M. TOSCANO-SILVA, H.A. DE AMORIM, B.H.S. ARAÚJO, P.S. RODRIGUES SIMÕES, M.D.G. NAFFAH-MAZZACORATTI, R.A. MORTARA, F.A. SCORZA, E.A. CAVALHEIRO & R.M. ARIDA
- A020** Effects of brief periods of unrestricted vision during early monocular form deprivation on V2 development of macaque monkeys  
Y. CHINO, X. TAO, B. ZHANG, J.M. WENSVEEN, R.S. HARWERTH & E.L. SMITH III
- A021** Absence of Mgat5 protein may confer behavioural and physiological resistance to the long-term effects of exposure to adverse early life experiences  
L.A. FELDCAMP, J.-S. DOUCET, M.P. FADEL, J. PAWLING, D.V. ROSA, J.W. DENNIS & A.H. WONG
- A022** Perturbance of postnatal neurogenesis causes prepulse inhibition deficits in the adult mouse and suggests a critical period for establishment of the sensorimotor gating system  
N. GUO, F. SUTO & N. OSUMI
- A023** Cognitive effects in rats submitted to fish oil supplementation and/or physical exercise program from development to midlife  
R.M. ARIDA, A.L.F. RACHETTI, C.L. PATTI, K.A. ZANIN, L. FERNANDES-SANTOS, R. FRUSSA FILHO, S. GOMES DA SILVA, M. TOSCANO-SILVA, F.A. SCORZA, E.A. CAVALHEIRO & R.M. CYSNEIROS
- A024** Effects of prenatal stress on maternal behavior and nest odor preference in rat pups  
M. ALVES DE SOUZA, R. ESCORSIM SZAWKA, L. ALINE CENTENARO, L. AMÁLIA DIEHL, M. BONESSO ALVES & A. BOLTEN LUCION
- A025** Sex difference in the effects of maternal exposure to low levels of corticosterone during lactation on the circadian HPA axis activity and sleep homeostasis of the adult progeny  
C. GIULI, C. CINQUE, A. DI MEGLIO, V. SILLETTI, A.R. ZUENA, A. TRAMUTOLA, G.S. ALEMA, G. MENNUNI, P. CASOLINI, F. NICOLETTI, A. CATALANI & J. MAIRESSE
- A026** Detrimental cognitive effects of early maternal deprivation in adolescent male and female rats. Putative underlying mechanisms  
M. VALERO, E.M. MARCO, O. DE LA SERNA, E. BORCEL, R. LLORENTE, M.J. RAMIREZ & M.-P. VIVEROS
- A027** Local glutamatergic and GABAergic connectivity within developing prefrontal cortex contributes to the generation of network oscillations *in vivo*  
K. SIEBERT & I.L. HANGANU-OPATZ
- A028** Role of ATP-sensitive potassium current ( $I_{KATP}$ ) in prolonged intrinsic bursting activity of developing entorhinal cortex layer III neurons  
M.S. LEMAK, A. DRAGUHN & A.V. EGOROV
- A029** early postnatal learning and development of adult maternal behavioral phenotypes in 129sv mice following blockade of histone deacetylase  
O.V. BURENKOVA, E.A. ALEKSANDROVA & I.Y. ZARAYSKAYA
- A030** Simultaneous monitoring the caspase-activity under optogenetic actuation: a versatile probe for the study of activity-dependent neurogenesis  
J. YOKOSE, T. ISHIZUKA & H. YAWO
- A031** Maternal exposure to low doses of corticosterone during lactation induces behavioral and neuroendocrine effects across generations in rat  
C. CINQUE, A.R. ZUENA, C. GIULI, P. CASOLINI, G.S. ALEMA, A. DI MEGLIO, S. SCACCIAOCE, A. TRAMUTOLA & A. CATALANI



## POSTER PRESENTATION

- A032** **Persistent effects of chemical and environmental factors on the early development of attentional processing in rats**  
A.L. ADAMS-MARRIOTT, T.A. DOUCETTE, C.L. RYAN & R.A. TASKER
- A033** **FinnBrain Birth Cohort Study - neurodevelopment and vulnerability to stress**  
H. KARLSSON, L. KARLSSON & F. RESEARCH GROUP
- A034** **Hipocampal pro-inflammatory cytokines as mediators of the response to early environmental variations**  
C.F. K. ROCHA, W. P. NUNES & D. TEIXEIRA
- A035** **Neonatal handling disrupts maternal care patterns and alters BDNF signal in the olfactory bulb of rat pups**  
A.R. REIS, M.S. DE AZEVEDO, M.A. SOUZA, M.B. ALVES, I. IZQUIERDO, M.P. CAMMAROTA & A.B. LUCION
- A036** **Consequences of acute or chronic early maternal separation in adulthood: changes on neural activity, biochemical and expression of glutamatergic transporters in rat brain**  
G.B. ACOSTA, A.E. SALATINO & M.M. ODEON
- A037** **The effects of diverse environmental conditions on cerebellar granule cell morphometry in prenatally stressed rats**  
F. YUCEL & E. ULUPINAR
- 
- 03. Glia (Schwann cells & oligodendrocytes)**
- A038** **P2Y receptors and MAPK pathway play a critical role in Schwann cell wound repair**  
A. LAMARCA, T. MARTIÁNEZ, M. SEGURA, N. DURANY, N. CASALS & A. GELLA
- A039** **PKA-mediated synthesis of GABA in Schwann cells is regulated by the neuroactive steroid allopregnanolone**  
E.M. MAMBRETTI, G. BONANNO, A. FARONI, A. PARDUCZ, F. FUMAGALLI, C. PEREGO & V. MAGNAGHI
- A040** **Schwann cells exhibit P2Y receptors that regulate intracellular calcium and activate MAPK Pathway**  
T. MARTIÁNEZ, A. LAMARCA, M. SEGURA, N. DURANY, N. CASALS & A. GELLA
- A041** **Modulation of EAAC1-mediated glutamate uptake and actin organization in Schwann cells**  
C. PEREGO, E.S. DI CAIRANO, E. FINO, M. BALLABIO & V. MAGNAGHI
- A042** **Effects of hypoxia and serum deprivation in cultured olfactory ensheathing cells**  
R. PELLITTERI, E. RANNO, M.V. CATANIA & D. ZACCHEO
- A043** **Olfactory ensheathing glia and schwann cell expression of myelin-related genes under differing media conditions**  
C. PLANT, S.V. LEE, M. RYAN, A. HARVEY & G. PLANT
- A044** **NCX3 isoform of the Na<sup>+</sup>/Ca<sup>2+</sup> exchanger plays a relevant role in the progression of oligodendrocyte precursor cells into oligodendrocytes**  
F. BOSCIA, C. D'AVANZO, A. PANNAZIONALE, A. SECONDO, A. CASAMASSA, L. FORMISANO, N. GUIDA & L. ANNUNZIATO
- A045** **Oligodendrocyte progenitor cell migration: linking the front and the rear end by a localized Ca<sup>2+</sup>-influx through mechano-sensitive ion channels**  
P. HAPPEL, M. SERDAR, N. SCHWERING, K. MÖLLER, I. ROTHENBERG & I.D. DIETZEL-MEYER
- A046** **The GPR17 receptor in oligodendroglial cells: cell heterogeneity, maturation and participation in CNS damage**  
E. BODA, F. VIGANÒ, R. PAROLISI, M. FUMAGALLI, P. ROSA, M. GOETZ, M.P. ABBRACCHIO, L. DIMOU & A. BUFFO
- A047** **Glutamate receptor activation promotes oligodendrocyte differentiation from adult neural multipotent stem cells**  
F. CAVALIERE, O. URRRA, E. ALBERDI & C. MATUTE
- A048** **NG2 cells increase expression of CINC-3, LIX, and IL-10 in response to lipopolysaccharide**  
Y. LI, X.L. DU, J. LU, S.S.W. TAY, G.M. ZHOU & B.P. HE
- A049** **GPR17 expression pattern in the developing and adult cerebellum**  
G. MENICHETTI, E. BODA, P. ROSA, M.P. ABBRACCHIO, A. BUFFO & F. ROSSI
- A050** **Visual evoked potentials and MBP gene expression imply endogenous myelin repair in adult rat optic nerve and chiasm following local lyssolecithin induced demyelination**  
S. MOZAFARI, M.A. SHERAFAT, M. JAVAN, J. MIRNAJAFI-ZADEH & T. TIRAIHI
- A051** **Endocannabinoids potentiate synaptic transmission through astrocyte stimulation**  
M. NAVARRETE & A. ARAQUE
- A052** **Lactate supports oligodendrocyte development and myelination in low energy conditions**  
J.E. RINHOLM, N.B. HAMILTON, N. KESSARIS, W.D. RICHARDSON, D. ATTWELL & L.H. BERGERSEN
- A053** **Inhibition of PI3K has important effects on oligodendrocyte living cells**  
A.D. RIVERA, K. AZIM & A.M. BUTT
- A054** **Microengineered hydrogel-based array to mime the glial scar**  
D.N. ROCHA, C.C. BARRIAS, J.B. RELVAS & A.P. PÉGO



- A055** Functional and molecular analysis of GABA<sub>A</sub> receptors in hippocampal NG2 glial cells  
G. SEIFERT, M. GRAUER, C. SCHÄFER, S. PASSLICK, R. JABS & C. STEINHÄUSER
- A056** Influence of different basal culture media on proliferation of oligodendrocyte precursor cells  
M. SERDAR, R. MARX, M. EHRlich, S. GOTTFRIED & I.D. DIETZEL
- A057** The fate-decision of NG2-positive glial progenitors depends on the local tissue microenvironment  
J. SYPECKA, A. SARNOWSKA, I. SZABLOWSKA-GADOMSKA, H. WINIARSKA, K. DOMANSKA-JANIK & B. LUKOMSKA
- A058** The regulation of sphingosine-1-phosphate 1 receptor trafficking in glia: implications for multiple sclerosis  
L.M. HEALY & K.K. DEV
- A059** Upregulation of vascular endothelial growth factor-C and its receptor in the spinal cord of Lewis rats with experimental autoimmune encephalomyelitis  
J.-M. PAARK, Y.-J. SHIN, S.-S. JEUN, J.-Y. CHOI, J.-H. CHA & M.-Y. LEE
- A060** Differentiation potential of polydendrocytes in the mouse cortex after focal cerebral ischemia  
P. HONSA, H. PIVONKOVA & M. ANDEROVA
- A061** Kir4.1 and Kir5.1 channel expression in white matter glia  
C. BRASKO, V. BAY & A.M. BUTT
- A062** Stereological analysis of glial cells stained with S100 of the brain of rats at different ages  
S.R. DE MELO, R.S. DA CRUZ, S.R.G. DE SOUZA, V. JANEIRO, R.M.W. DE OLIVEIRA & J.N. ZANONI
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- 05. Neurogenetics**
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- A063** Experiential therapy attenuates the cumulative effects of stress on brain transcriptome and brain damage  
F.C.R. ZUCCHI, Y. YAO, I. KOVALCHUK, D.M. OLSON & G. METZ
- A064** The -C511T polymorphisms in the IL-1b gen promoter on the NOS2A -2600 (CCTTT)<sub>n</sub> pentanucleotide microsatellite enhance risk to development of cerebral palsy in patient with antecedent of perinatal hypoxia-ischemia  
S. TORRES-MERINO, J.L. MERINO GARCIA, J.A. OREDAIN LEÓN, H.N. MORENO-SANDOVAL, B.A. LEON-CHAVEZ, D. MARTINEZ-FONG & J.A. GONZALEZ-BARRIOS
- A065** Tobacco smoking produces greater striatal <sup>11</sup>C-raclopride displacement in *Mu* opioid A118G receptor carriers  
E.F. DOMINO, C.L. EVANS, L. NI, S.K. GUTHRIE, R.A. KOEPPE & J.-K. ZUBIETA
- A066** Xamoterol rescues memory deficit in mouse model of down syndrome by activation of beta-1 adrenergic receptor  
M. SHAMLOO, M. FAIZI & W.C. MOBLEY
- A067** Autism-associated mutations in Neurexin-1beta affect translation initiation and synaptic protein levels  
R.J. CAMACHO-GARCIA, M.I. PLANELLES, M. MARGALEF, M.L. PECERO, R. MARTÍNEZ-LEAL, F. AGUILERA, E. VILELLA, F.G. SCHOLL & A. MARTINEZ-MIR
- A068** Effect of an extract of *Mangifera indica* L. In patients with spinocerebellar ataxia type 2  
M.M. GUEVARA-GARCIA
- A069** Genes encoding chromatin remodeling proteins are down regulated in hippocampal cells during the course of epileptogenesis  
L. JANJOPPI, M.L. FIUZA, E.A. CAVALHEIRO & O.K. OKAMOTO
- A070** Effect of single BDNF administration on depressive-like behavior in mice with different genetical predisposition to catalepsy  
D. BAZOVKINA, E. KONDAUROVA, V. NAUMENKO & A. KULIKOV
- A071** Epithelial-to-mesenchymal transition: possible role in meningiomas  
N. PECINA-SLAUS, T. NIKUSEVA MARTIC, A. KAFKA, S. BULAT, M. PUSIC, M. ZELJKO, R. HRASCAN & D. TOMAS
- A072** Similar electrophysiological patterns of brain activation during cognitive tasks in non-demented adults related to apolipoprotein E and apolipoprotein J/clusterin genotypes  
N. PONOMAREVA, S. KUNJEVA, L. SHAGAM, N. CHEGLOVA, D. MALINA & E. ROGAEV
- A073** Copy number variants in two mouse models of affective disorders  
R. WIDNER, J. BRENNDÖRFER, L. CZIBERE, C. WOLF, C. TOUMA, T. BETTECKEN & R. LANDGRAF
- A074** Short report novel mutation in *GLRB* in a large family with hereditary hyperekplexia  
R.S. ALAMEER, M. AL-OWAIN, D. COLAK, A. AL-BAKHEET, A. AL-HEMIDAN, H. ALDHALAAN, Z. RAHBEENI, M. AL-SAYED, B. AL-YOUNES, P. OZAND & N. KAYA
- A075** The effect of the apolipoprotein E gene and promoter polymorphisms in Alzheimer disease in a Tunisian population  
A. ACHOURI RASSAS, H. MRABET KHIARI, S. HADJ FREDJ, T. MESSAOUD & A. MRABET
- A076** Global gene expression profile of identified neurogliaform interneurons in the neocortex  
E. BOLDOG, N. FARAGÓ, M. RÓZSA, E. VÁMOS, S. OLÁH, V. SZEMENYEI, S. LOVAS, L. PUSKÁS & G. TAMÁS



## POSTER PRESENTATION

Friday July 15

- A077** Through its ability to target nucleosome remodeling,  $b_4$ , a subunit of voltage-dependent calcium channels regulates the expression of the tyrosine hydroxylase gene  
K. FABLET, M. BARBADO & M. DE WAARD
- A078** Expression and Distribution of CoREST and LSD1 in adult rat brain  
A.V. GÓMEZ, A. BARRIOS, J. SÁEZ & M.E. ANDRÉS
- A079** Neurons highly express *Stam2* gene  
K. KAPURALIN, M. CURLIN, M. DOBRIVOJEVIC & S. GAJOVIC
- A080** Nuclear  $\beta$ -catenin is constitutively present in postmitotic thalamic neurons due to WNT-independent mechanism  
K. MISZTAL, M.B. WISNIEWSKA, M. AMBROZKIEWICZ & J. KUZNICKI
- A081** Genoarchitectonic analysis of the developing pretectum in *Xenopus laevis*  
R. MORONA, J.L. FERRAN, J. PERLADO, J.M. LOPEZ, N. MORENO, L. DOMINGUEZ, A. JOVEN, S. BANDIN, L. PUELLES & A. GONZALEZ
- A082** Comparison of genetically encoded calcium indicators and voltage-sensitive fluorescent proteins readouts after sub- and suprathreshold stimulations  
H. MUNGUBA, S. MIKULOVIC, N.G. NEUMANN & R.N. LEÃO
- A083** Modulation of SYN1 gene promoter by RE1 silencing transcription factor (REST) and Sp1  
F. PAONESSA, F. CESCA, S. LATIFI & F. BENFENATI
- A084** Feasibility study of odor biosensor using dissociate neuronal culture with gene expression of ionotropic odorant receptors  
N. TANADA, T. SAKURAI, H. MITSUNO, D. BAKKUM, R. KANZAKI & H. TAKAHASHI
- A085** Plasticity of opioid receptors in the female periaqueductal gray: multiparity-induced increase in the activity of genes encoding for mu and kappa receptors, post-translational decrease in delta receptor expression  
E. TEODOROV, R. CAMARINI, M.M. BERNARDI & L.F. FELICIO
- A086** RNA species in the axon, growth cone and axonal shaft of cultured rat hippocampal neurons  
Y.-Y. WANG, H.-I. WU, W.-L. HSU, H.-W. CHUNG, P.-H. YANG, Y.-C. CHANG & W.-Y. CHOW
- A087** Fiber-optic monitoring of *zif268*-promoted EGFP fluorescence in the brain of freely moving mice  
M.A. ZOTS, O.I. IVASHKINA, L.V. AMITONOVA, A.M. ZHELTIKOV & K.V. ANOKHIN
- 06. Excitable membranes & ion channels (Pharmacology & disease)**
- A088** The effect of fluoxetine on AMPA receptors  
O.I. BARYGIN & D.B. TIKHONOV
- A089** A new NO donor does not induce relaxation in basilar artery isolated from normotensive (2K) and renal hypertensive (2K1C) rats  
M. PAULO, G.J. RODRIGUES, R.S. DA SILVA & L.M. BENDHACK
- A090** Arginine offers neuroprotection by blocking acid sensing ion channel  
A.K. BERA & S.M. SWAIN
- A091** Pathophysiology of information processing in neocortical dendrites in Fragile X Syndrome  
A. BONNAN, Y. ZHANG, M. GINGER & A. FRICK
- A092** Modulation of glycine receptors by ginkgolic acid  
S. BULDAKOVA & P. BREGESTOVSKI
- A093** Modulation of the  $Ca^{2+}$  permeability of muscle nAChR-channel  
C. DEFLORIO
- A094** Glioma cells alter neuronal chloride equilibrium through extracellular glutamate release  
S. DI ANGELANTONIO, C. BERTOLLINI, A. PICCIONI, E. MURANA, S. COCCO, M.G. MOLINARI, P. BREGESTOVSKI, C. LIMATOLA & D. RAGOZZINO
- A095** Brain sodium channel: functional role of developmentally regulated alternative splicing  
E.V. GAZINA, C.A. REID, K.L. RICHARDS & S. PETROU
- A096** Reduced cerebellar Purkinje cell firing associated with motor impairment in *Ebf2*-null mice  
E. HOXHA, R. TONINI, F. MONTAROLO, L. CROCI, G.G. CONSALEZ & F. TEMPIA
- A097** Role of dorsal hippocampal transient receptor potential vanilloid type 1 (TRPV1) in morphine induced place preference  
M.H. KHANI, A. REZAYOF & M. SAHEBGHARANI
- A098** Chemical hypoxia potentiates NMDA receptor currents, but not non-NMDA receptor currents, in the hypoglossal motor neurons of the rat  
Y. KONQ, S. TAKAGI, S. MOCHIO & F. KATO
- A099** Ethanol regulation of the inhibitory effects of ketamine on spinal NMDA-induced pressor responses in rats  
C.-C. LAI, N.-T. KENG & W.-K. HSIEH

- A100** A non toxic fraction from *Androctonus australis* Hector scorpion venom activates currents carried by Kv7.4 channels  
Z. LANDOULSI, F. MICELI, N. SRAIRI-ABID, M. EL AYEB, M. TAGLIALATELA & R. BENKHALIFA
- A101** Optogenetic inhibition of epileptic activity  
L. MANTOAN, R. WYKES, M.C. WALKER & D.M. KULLMANN
- A102** Structure and function of native GABA<sub>A</sub> receptors decoded by single-cell RT-PCR and mouse genetics  
A. MAY, O. KLETKE, U. RUDOLPH, G. GISSELMANN, H.L. HAAS & O.A. SERGEEVA
- A103** Gating current measurements from K<sub>v</sub>7 channels carrying disease-causing mutations reveal novel pathogenetic mechanisms for neuronal hyperexcitability  
F. MICELI, E. VARGAS, M.R. CILIO, F. BEZANILLA & M. TAGLIALATELA
- A104** Effect of monocyte chemoattractant protein-1 inhibition on cortical neuron excitability in a model of amyotrophic lateral sclerosis  
M. PIERI, S. CAIOLI, A. ANTONINI, C. SEVERINI, A. GUGLIELMOTTI & C. ZONA
- A105** Effects of amyloid-beta peptides on voltage-gated L-type Ca<sub>v</sub>1.2 and Ca<sub>v</sub>1.3 Ca<sup>2+</sup> channels  
S. KIM & H. RHIM
- A106** Modulation of GABA<sub>A</sub> receptor by sulphated neurosteroids  
D. SACHIDANANDAN & A.K. BERA
- A107** Neuroprotective effects of FK506 against excitotoxicity in the kainic acid-induced hippocampal cell death by regulating GABA<sub>A</sub> receptor-mediated neuronal chloride homeostasis  
H.J. SHIN, B.T. JEON, E.A. JEONG, D.H. LEE, H.J. KIM, S.S. KANG, G.J. CHO, W.S. CHOI & G.S. ROH
- A108** Tolperison-type ion channel modulators delay the induction of cortical spreading depression by ouabain in mouse brain slices  
I. TARNAWA, M. THÁN, P. KOCSIS & B. FARKAS
- A109** Toad toxin from *Bufo regularis* inhibits excitability of Cray fish stretch receptor neurons and contractions of smooth muscles of guinea pig ileum  
T. TOLESSA
- A110** Oxcarbazepine is a nicotinic acetylcholine receptor channel blocker  
A.S. VALLÉS & F.J. BARRANTES
- A111** X-ray structures of general anaesthetics bound to a pentameric ligand-gated ion channel  
H. NURY, C. VAN RENTERGHEM, Y. WENG, A. TRAN, M. BAADEN, V. DUFRESNE, J.-P. CHANGEUX, J.M. SONNER, M. DELARUE & P.-J. CORRINGER
- A112** Deregulation of basal autophagy following retinal ischemic injury  
G.P. VARANO, R. RUSSO, A. ADORNETTO, F. CAVALIERE, L.A. MORRONE, G. BAGETTA & M.T. CORASANITI
- A113** Interaction of bupropion and zinc with neuronal nicotinic acetylcholine receptors  
E. VÁZQUEZ-GÓMEZ, U. GODOY-GARCÍA & J. GARCÍA-COLUNGA
- A114** Modulations of acid-sensing ion channels by salicylate and aspirin are protective against acidosis-induced neuronal injury in cerebral cortical neurons of rats  
W. WANG & S. YE
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- 07. Synaptic transmission & signal transduction (Physiology)**
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- A115** Orexin-A potentiates excitatory synaptic transmission to the locus coeruleus neurons  
H. AZIZI, S. SEMNANIAN, S.J. MIRNAJAFI-ZADEH, K. ROHAMPOUR & H. AZHDARI ZARMEHRI
- A116** Inhibitory microcircuits scale grid fields  
P. BEED, C. BÖHM, S. SCHNEIDERBAUER, M. KRAMAREK, C. LEIBOLD & D. SCHMITZ
- A117** Non conventional activity of the endocannabinoid system at glutamate release in rat cortical astrocytes  
T. BONIFACINO, M. BARI, M. MILANESE, F. GIRIBALDI, P. SPAGNUOLO, N. BATTISTA, A. FINAZZI AGRÒ, M. MACCARRONE & G. BONANNO
- A118** Heterogeneity of glutamatergic and GABAergic release machineries in cerebral cortex  
L. BRAGINA
- A119** Synaptic activation of GABA<sub>B</sub> receptors in granule cells reduces GABA<sub>A</sub> receptor-mediated responses at the Golgi cell-granule cell synapse in rat cerebellum  
F. BRANDALISE, L. MAPELLI, U. GERBER & P. ROSSI
- A120** GluN2D-containing NMDA receptors in cholinergic interneurons control dopamine release in the mouse striatum  
X. ZHANG & K. CHERGUI
- A121** Beta-adrenergic receptors facilitate heterosynaptic LTP by engaging translation-dependent synaptic tagging and capture  
S.A. CONNOR & P.V. NGUYEN
- A122** NMDA receptor activity in synaptically connected neurons from dissociated striatal and cortical tissue grown on multielectrode arrays  
M. GARCIA-MUNOZ, L. CARRILLO-REID, W.A. STAINES & G.W. ARBUTHNOTT



## POSTER PRESENTATION

Friday July 15

- A123** **Functional and molecular cross-talk between dopamine and NMDA receptors in striatum**  
F. GARDONI, C. VASTAGH, V. BAGETTA, E. ZIANNI, S. MARINUCCI, B. PICCONI, P. CALABRESI & M. DI LUCA
- A124** **Recovery of vesicular storage and release parameters after high frequency stimulation in excitatory synapses of rat hippocampus**  
L. BUI & M.I. GLAVINOVIC
- A125** **Location dependency of information processing in the dendrite of hippocampal granule cells**  
H. HAYAKAWA, T. KAMIJOU, Y. FUKUSHIMA & T. AIHARA
- A126** **Mechanisms of theta oscillations in *in toto* hippocampal preparation**  
D. ISHIKAWA, N. MATSUKI & Y. IKEGAYA
- A127** **Effect of insulin on GABA<sub>A</sub> channels in rat CA1 pyramidal neurons**  
Z. JIN, Y. JIN, S. KUMAR-MENDU, E. DEGERMAN, L. GROOP & B. BIRNIR
- A128** **Integration of different inputs in the rat hippocampal dentate gyrus**  
T. KAMIJO, H. HAYAKAWA, Y. FUKUSHIMA & T. AIHARA
- A129** **GABAergic projections from the subplate to Cajal-Retzius cells in the neonatal neocortex**  
S. KIRISCHUK & P. UNICHENKO
- A130** **Regulation of single cell initiated network events by serotonin in the human cerebral cortex**  
G. KOMLÓSI, G. MOLNÁR, S. OLÁH, M. RÓZSA, M. FÜLE, P. BARZÓ & G. TAMÁS
- A131** **Dynorphins induce stochastic conductance changes in neuronal plasma membranes providing basis for a new type of signaling**  
O. KRISHTAL, V. KHYMYZ, O. MAXIMYUK, O. DYACHOK & G. BAKALKIN
- A132** **Regulation of synaptic activity by 15-lipoxygenase in dentate gyrus**  
M.-L. LEE, W.-L. CHIEN, W.-M. FU & H.-H. LIOU
- A133** **Participation of N- and P/Q-type of calcium channels in GABAergic short-term plasticity in hippocampus**  
O.P. MIZERNA, S.A. FEDULOVA & N.S. VESELOVSKY
- A134** **Plasticity of neurotransmitter segregation in sympathetic neurons *in vivo*. Target connections-dependence**  
A. VEGA, F. CIFUENTES & M.A. MORALES
- A135** **Transcranial magnetic stimulation (TMS) generates GABA<sub>B</sub> mediated inhibition in layer 5 pyramidal neuron dendrites**  
S. MURPHY, M. MURAYAMA, L. PALMER & M. LARKUM
- A136** **Aspartate: a transmitter candidate at hippocampal synapses**  
C. MORLAND, K. NORDENGEN, M. LARSSON, L. PROLO, R. REIMER & V. GUNDERSEN
- A137** **Dendritic activity is correlated to neuronal output in vivo**  
L.M. PALMER & M.E. LARKUM
- A138** **On the events in the hippocampal CA1 neuronal circuit during sharp wave-ripple activity**  
C. PAPTAEODORPOULOS
- A139** **Possible physiological role of rapid habituation of the dopaminergic response to palatable food in the rat nucleus accumbens shell**  
S. SCHEGGI, D. MARANGI, M.E. SECCI, M.G. DE MONTIS & C. GAMBARANA
- A140** **Quantitative ultrastructural analysis of commissural/associational CA3 synapses in wild type and FGF22 knock-out mice**  
T. SCHIKORSKI, L. QU, D. CRUZ, L. CUMBA & T. PASAOGLU
- A141** **Nicotinic acetylcholine receptors in the habenula of rat and of mice with targeted deletions of distinct nAChR subunit genes: an immunoprecipitation study**  
P. SCHOLZE & S. HUCK
- A142** **Synaptic transmission and excitability of GABAergic hippocampal neurons of Kidins220/ARMS knock-out mice**  
J. SCHOLZ-STARKE, F. CESCO, G. SCHIAVO, F. BENFENATI & P. BALDELLI
- A143** **Callosal activation of interneurons in the sensorimotor cortex in rats *in vitro* and *in vivo***  
J.M. SCHULZ, L.M. PALMER, D. LEDERGERBER & M.E. LARKUM
- A144** **Frequency-dependent modulation of noradrenergic transmission by cannabinoids in the rat prefrontal cortex and its interaction with alpha2-adrenoceptors**  
B. SPERLAGH, H. RICHTER, F.A. TEIXEIRA, S.G. FERREIRA, A. KITTEL & A. KOFALVI
- A145** **Optically measured propagation speed of action potential in dendrites during different regenerative events**  
G. SZALAY, G. KATONA, P. MÁÁK, M. VERESS, A. KASZÁS, B. CHIOVINI, D. PÁLFI & B. RÓZSA
- A146** **D1 receptor stimulation up-regulates voltage-gated sodium channels in mPFC pyramidal neurons from adult rats**  
B. SZULCZYK & P. SZULCZYK
- A147** **Physiological role of lactate in the hypoglossal motor neurons**  
S. TAKAGI, M. NAGASE, Y. KONO, S. MOCHIO & F. KATO

- A148** Reciprocal actions of leptin on excitatory and inhibitory synaptic transmission between pyramidal and fast spiking cells in rat cerebral cortex  
H. TAKEI, T. SHIRAKAWA, N. KOSHIKAWA & M. KOBAYASHI
- A149** Age-dependent remodelling of inhibitory synapses onto hippocampal CA1 oriens-lacunosum moleculare interneurons  
L. TOPOLNIK, C. SALESSE, C. LACHARITE MUELLER, S. CHAMBERLAND & D. TOPOLNIK
- A150** Dynamic spike threshold contributes to spike timing and synaptic coincidence detection in thalamic reticular neurons *in vivo*  
E. TRINCADO, F. MUÑOZ & P. FUENTEALBA
- A151** The subcellular distribution of presynaptic glycine receptors correlates with the occurrence of endogenous sources of their agonists  
J. TROJANOVA, A. KULIK, J. JANACEK & R. TURECEK
- A152** Dopaminergic modulation of the voltage activated sodium current in cochlear afferent neurons of the rat  
C.B. VALDÉS, E.E. SOTO & R.S. VEGA
- A153** Alpha1-adrenoreceptors modulate glutamate release onto VTA DA cells  
M.C. VELÁSQUEZ-MARTÍNEZ, R. VÁZQUEZ-TORRES, M.E. VÉLEZ-HERNÁNDEZ & C.A. JIMÉNEZ-RIVERA
- A154** Corticostriatal plasticity and network dynamics in anatomically defined primary neuronal culture system  
C. VICKERS, G. ARBUTHNOTT & J. WICKENS
- A155** Evidences for synaptic connection between cholinergic and noradrenergic neurons in rat pons  
H.-W. YANG, T.-W. CHANG, M.-J. LI & M.-Y. MIN
- A156** Mechanisms of dopamine plasticity in mouse striatum and its modulation by alpha-synuclein  
L. YAVICH & H. CHADCHANKAR
- 
- 08. Neural plasticity (Signalling & synaptic plasticity I)**
- A157** NR2A subunit expression rapidly increases after LTP induction in adult rats  
A.I. AGUIRRE, M.V. BAEZ, M.V. OBERHOLZER, M. CERCATO & D.A. JERUSALINSKY
- A158** Polysialic acid removal modifies the plastic response of prefrontocortical inhibitory circuits to dopamine D2R agonists  
E. CASTILLO-GÓMEZ, C. GARCÍA-MOMPÓ, H. CARCELLER, S. COVIELLO & J. NÁCHER
- A159** Neuronal specific  $\beta$ Pix isoform,  $\beta$ Pix-b stimulates actin-dependent comet tail and dendritic spine formation through its interaction with N-WASP  
Y. KIM, D. PARK & S. CHANG
- A160** D-serine control of NMDA receptor activity and synaptic plasticity in the nucleus accumbens  
L. CURCIO, L. LEONE, M.V. PODDA, R. PIACENTINI, S. SACCHI, L. POLLEGIONI, C. GRASSI & M. D'ASCENZO
- A161** Cofilin under arrest: a new role for  $\beta$ -Arrestin2 in spatial control over cofilin activity in NMDA-induced plasticity in hippocampal neurons  
C. PONTRELLO, K. DE FEA & L.M. ETHELL
- A162** Selective Rac1 mutants promote cell survival and axon regeneration in the injured retina  
M. ETTORRE, E. LORENZETTO, M. BOLOMINI-VITTORI, V. PONTELLI, C. LAUDANNA & M. BUFFELLI
- A163** Plasticity of the developing neurons in rats administered with ethyl alcohol  
P. DAVID
- A164** Circadian cycling of the expression and activity of nitric oxide synthase (NOS) in the hippocampus of pigeons (*C. livia*)  
A.V.S. MACHADO, L.O.M. FARIA, A.S. VIEIRA, S.A. TEIXEIRA, M.N. MUSCARA & E.A.M. FERRARI
- A165** Long-term synaptic plasticity and related gene expression in the cerebellar cortex  
D. GANDOLFI, S. CERRI, J. MAPELLI, M. POLIMENI, S. TRITTO, M.-T. ARMENTERO, F. BLANDINI & E. D'ANGELO
- A166** A central role for BDNF and Sonic Hedgehog in controlling synaptic plasticity in motoneuron-depleted spinal cord  
R. GULINO & M. GULISANO
- A167** Regulated miRNA biogenesis and P-body mRNA localization determine specificity of BDNF-induced protein synthesis  
Y.A. HUANG, C.R. RUIZ, E.C.H. EYLER & M.K. MEFFERT
- A168** Expression of the type 1 metalloproteinase in the adult rat brain in normal conditions and after the intraperitoneal kainic acid treatment  
V.N. IERUSALIMSKY & P.M. BALABAN
- A169** Molecular mechanism of dendritic spine enlargement during LTP  
M. KHAN, G. LAKHANPAL & K. OKAMOTO
- A170** The regulation of dendritic spine structural plasticity by CaMKII beta  
G.K. LAKHANPAL, K. KIM, M. KATO-HAYASHI, Y. HAYASHI & K. OKAMOTO
- A171** Variations of cell proliferation in relation with seasonal reproduction in sheep hypothalamus  
M. MIGAUD, S. SEGURA, D. PILLON, I. FRANCESCHINI & M. BATAILLER



## POSTER PRESENTATION

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- A172** **CaMKII mediates morphine-induced spine loss, but not morphine-induced loss of GluR1**  
E.C. MILLER, A. KAM, H. LOH, P.Y. LAW & D. LIAO
- A173** **Expression of Arc and phosphorylation of CREB in the same cortical neurons after reactivation of a spatial exploration task**  
E.A. MORALES & V. RAMIREZ-AMAYA
- A174** **Regulation of the Ras-MAPK pathway by neurofibromin in the dendritic spines of CA1 pyramidal neurons in the hippocampus**  
A.F. OLIVEIRA & R. YASUDA
- A175** **Unmasking synaptic plasticity in the adult mouse through CSPGs digestion**  
M. PANNIELLO, L. DE VIVO, S. LANDI, T. PIZZORUSSO & G.M. RAITO
- A176** **Nicotine produces neurotrophic effects on mesencephalic dopaminergic neurons: role of dopamine D3 receptors and nicotinic acetylcholine receptors**  
L. PLEBANI, L. CAVALLERI, F. BONO, E. MERLO PICH, M. ZOLI, P.F. SPANO, C. MISSALE & G. COLLO
- A177** **Modulatory effects of  $\alpha 5$ GABA<sub>A</sub> receptors on synaptic plasticity in ventral and dorsal CA1 hippocampal field**  
H. POFANTIS, S. KOUVAROS & C. PAPTHEODOROPOULOS
- A178** **Alpha7-nicotinic acetylcholine receptors switch LTP into LTD at the mossy fibre - granule cell synapse of cerebellum**  
E. PRETORI, P. LOMBARDO, C. BONARDI, M.E. DE STEFANO, R.J. GOSELINK, M. SCHONEWILLE, D. BERTRAND, C.I. DE ZEEUW & E. D'ANGELO
- A179** **Dendritic microRNAs and GluA2 expression**  
A. ROCCHI & T. TKATCH
- A180** ***In vitro* isolation of neural precursor cells from adult ewe hypothalamus**  
S. SEGURA, M. BATAILLER, D. PILLON, J. DUPONT, I. FRANCESCHINI & M. MIGAUD
- A181** **Origin of Nogo-A/RTN4-A as a neurite outgrowth inhibitor**  
A. SHYPIYSYNA, E. MÁLAGA-TRILLO, A. REUTER & C.A.O. STUERMER
- A182** **Serotonin receptor 7 (Htr7): a key-regulator of neuronal morphology in striatal circuits**  
L. SPERANZA, G.C. BELLENCHI, U. DI PORZIO & C. PERRONE-CAPANO
- A183** **P2X7 receptor mediated regulation of BDNF production in the hippocampus**  
C. CSÖLLE & B. SPERLÁGH
- A184** **Short-term cholecystokinin-4 intraperitoneal treatment enhances amphetamine-induced stereotyped behavior in rats**  
B.N. FISCHER, L. VERGAMINI, H.R. SILVA, C. LOPES & C.A. TIEPPO
- A185** **Serotonin affects plasticity induction in the cerebellar granular layer**  
S. TRITTO, P. LOMBARDO, E. CESANA & E. D'ANGELO
- A186** **Wnt and glycogen synthetase kinase-3 regulate mammalian target of rapamycin in late LTP**  
N. TZAVARAS, T. MA, P. TSOKAS, E.M. LANDAU & R.D. BLITZER
- 
- 09. Neuroendocrine & autonomic regulation (Cardiovascular & body weight regulation)**
- 
- A187** **Blockade of delta opioid receptors in the ventrolateral periaqueductal gray region inhibits the hypotensive response evoked by endotoxemia in conscious rats**  
M.S. YILMAZ, C. FELEDER & W.R. MILLINGTON
- A188** **Contribution of BDNF/TrkB cascade to brain stem cardiovascular regulation during acute experimental temporal lobe epilepsy**  
C.Y. TSAI, A.Y.W. CHANG & S.H.H. CHAN
- A189** **Hypothalamic supraoptic but not paraventricular nucleus is involved in cardiovascular responses to carbachol microinjected into the bed nucleus of stria terminalis of unanesthetized rats**  
F. ALVES, C. CRESTANI, C. BUSNARDO, J. ANTUNES-RODRIGUES, G. FELIPE, L. RESSTEL & F. CORRÉA
- A190** **Different role of Non-NMDA and NMDA glutamate receptors into the paraventricular nucleus of the hypothalamus in modulating pressor response evoked by acute restraint in rats**  
C. BUSNARDO, F. ALVES, R. TAVARES, L. RESSTEL & F. CORREA
- A191** **Neuroendocrine and cardiovascular effects of hydroxyethyl starch-induced blood volume expansion during experimental septic shock**  
M.B. SANTIAGO, J. ANTUNES-RODRIGUES & A. GIUSTI-PAIVA
- A192** **Tachycardic response to microinjection of acetylcholine into the ventrolateral gray area is abolished in sinoaortic denervated rats**  
M.V. DEOLINDO, E.A. FORTALEZA & F.M. CORREA
- A193** **The role of claustrum in cardiovascular regulation**  
M. HATAM & A. NASIMI

- A194** **Chronic treadmill running lowers resting blood pressure by upregulating hypothalamic GABAergic system in normotensive rats**  
Y.-C. HSU, H.-I. CHEN, Y.-M. KUO, L. YU, T.-Y. HUANG, S.-J. CHEN, J.-I. CHUANG, F.-S. WU & C. JEN
- A195** **Glycine transporter-like immunoreactivities (GlyT1 and GlyT2) in the rat hypothalamus, with special reference to the magnocellular neurohypophysial system**  
A. MARTINEZ, L. GENTIL, C.E. D'ARCY, L.J. AGOSTINELLI, K.L. GOSELINK, M. MIRANDA & A.M. KHAN
- A196** **Heart rate variability during and after acute intermittent hypoxia in rats**  
M. VALIC, Z. VALIC, I. PAVLINAC, R. PECOTIC & Z. DOGAS
- A197** **Activation of muscarinic receptors within the lateral hypothalamus increases cardiovascular and thermogenetic sympathetic outflow**  
F. DEL VECCHIO, A. ALTZACHMAN, R. AMICI, M. CERRI, M. LUPPI, D. MARTELLI, M. MASTROTTO, E. PEREZ, D. TUPONE & G. ZAMBONI
- A198** **Glutamatergic receptors mediate cardiovascular responses evoked by the microinjection of L-proline into the supraoptic nucleus of unanesthetized rats**  
S. LOPES DA SILVA, C. BUSNARDO & F.M.A. CORREA
- A199** **Paraventricular nucleus of the hypothalamus directly innervates brainstem cardiac parasympathetic neurons**  
D. MENDELOWITZ & R. PINOL
- A200** **Morphology of neuropeptide CNP2 modulation of heart activity in terrestrial snail**  
N. ASEYEV, I.S. ZAKHAROV & P.M. BALABAN
- A201** **NADPH oxidase-derived superoxide mediate cardiovascular effects of Urotensin II in spontaneously hypertensive rats**  
N. LU, Y.C. ZHU & R. WANG
- A202** **Angiotensinase activity in hypothalamus and plasma of hypertensive rats after sympathetic  $\beta$  receptor blockade<sup>a</sup>**  
M. RAMÍREZ, A. SEGARRA, A. VILLAREJO, I. BANEGAS, R. WANGENSTEEN, F. VIVES & I. PRIETO
- A203** **Hypothalamic and plasmatic angiotensin metabolism in L-NAME treated hypertensive rats<sup>a</sup>**  
F. VIVES, A. SEGARRA, A. VILLAREJO, I. BANEGAS, R. WANGENSTEEN, M. RAMÍREZ, F. HERMOSO & I. PRIETO
- A204** **The influence of orexins on the firing rate of rat intergeniculate leaflet and suprachiasmatic nuclei neurons - electrophysiological and immunohistological studies**  
D. PEKALA, T. BLASIAK & M.H. LEWANDOWSKI
- A205** **Effect of food entrainment on activation and mRNA expression of medullary A1 and A2 cell groups**  
K. KÖNCZÖL, R.S. PAPP, É. RENNER, T.L. BALÁZSA, K. GALLATZ, Z.E. TÓTH & M. PALKOVITS
- A206** **Impaired hypothalamic STAT3 phosphorylation in the tolerance to endotoxin-induced hypophagia and leptin resistance**  
B.C. BORGES, R. RORATO, J. ANTUNES-RODRIGUES & L.L.K. ELIAS
- A207** **Histamine influences body temperature and energy expenditure by modulating the activity of two populations of preoptic neurons**  
I.V. TABAREAN & M. SANCHEZ ALAVEZ
- A208** **Leptin is not required for fertility**  
O. WANG, S. SAKIHARA, K. GUDMUNDSSON & J. MAJZOUB
- A209** **Deletion of *Mecp2* in pituitary Pomc-expressing cells increases body weight without altering food intake nor stress response**  
P. OJEDA-PROVOSTE, J. SOTO-COVASICH, R. TORRES-ANDRADE, H.A. ROA-ROJAS, M. RUBINSTEIN, J.I. YOUNG & B. KERR
- A210** **Melatonin and the peripheral clock genes in the regulation of energy metabolism**  
J. CIPOLLA-NETO, M. TANEDA, R. PERES, R. PELICIARI-GARCIA, S. BORDIN & F.G. AMARAL
- A211** **Nesfatin-1 influences the excitability of glucosensing neurons in the hypothalamus**  
J. DONG, X. CHEN & Z.-Y. JIANG
- A212** **Nesfatin-1 influences the excitability of glucosensing neurons in the Dorsal Vagal complex**  
Z.-Y. JIANG
- A213** **Water extract of medicinal herbal complex suppresses body weight gain through neuroendocrine control in diet-induced obese rats**  
I.S. SHIN, H.J. KIM, S.J. HWANG & M.R. KIM
- A214** **Glucagon-like peptide-1 of brainstem origin activates dorsomedial hypothalamic neurons in satiated rats**  
E. RENNER, N. PUSKAS, A. DOBOLYI & M. PALKOVITS
- A215** **A key role of orexin (hypocretin) neurons in defense response against stressor**  
T. KUWAKI
- A216** **Functional heterogeneity of orexin-expressing neurons in the hypothalamus of rats**  
R.S. PAPP, C. ÁDORI, T. BALÁZSA, K. KÖNCZÖL, G. LOURMET, É. RENNER & M. PALKOVITS
- A217** **Orexin induces excitation of respiratory neuronal network in the isolated brainstem-spinal cord of neonatal rat**  
S.-I. KUWANA, T. SUGITA, Y. KAKU, H. ARISAKA & S. SAKURABA



## POSTER PRESENTATION

- 10. Pain (Neuropathic pain)**
- A218** **The locus coeruleus activity is preserved in neuropathic rats**  
C. ALBA-DELGADO, P. SANCHEZ-BLAZQUEZ, G. BORGES, J.E. ORTEGA, I. HORRILLO, J.A. MICO, J.J. MEANA, F. NETO & E. BERROCOSO
- A219** **Autophagy disruption in the mouse spinal cord following peripheral nerve injury**  
L. BERLIOCCI, R. RUSSO, M. MAIARÙ, A. LEVATO, G. BAGETTA & M.T. CORASANITI
- A220** **Glia activation along the nervous system during oxaliplatin-dependent neuropathic pain**  
L. DI CESARE MANNELLI, L. BONACCINI, T. MELLO, M. ZANARDELLI, A. PACINI & C. GHELARDINI
- A221** **Oxidative stress induced by oxaliplatin: focus on neuropathy**  
M. ZANARDELLI, L. DI CESARE MANNELLI, P. FAILLI & C. GHELARDINI
- A222** **Effect of nerve injury on cold intolerance and its relation to the distribution and density of CGRP-fibers in the rat foot sole**  
L.S. DURAKU, A. HOSSAINI, L. FALKE, S. HOENDERVANGERS, E.T. WALBEEHM & T.J.H. RUIGROK
- A223** **Gender differences in pain response to peripheral injury in mice**  
M. MAIARÙ, L. BERLIOCCI, A. LEVATO, G. BAGETTA & M.T. CORASANITI
- A224** **MiR-134: a LimK1 targeting microRNA involved in central pain sensitization**  
S. ABDEL SALAM, A. FAVEREAUX, M. MOFTAH, A. CALAS, F. NAGY & M. LANDRY
- A225** **Neuropathic pain reduces connectivity between hippocampus and prefrontal cortex in rats performing a spatial working memory task**  
H. CARDOSO-CRUZ, D. LIMA & V. GALHARDO
- A226** **Analgesic efficacy of the novel imidazoline-2 ligand CR4056 in preclinical models of neuropathic pain**  
M. LANZA, F. FERRARI, C. MEREGALLI, A. CANTA, A. CHIORAZZI, G. CAVALETTI & G. CASELLI
- A227** **Roles M1 receptors in the anterior cingulate cortex (ACC) in neuropathic pain**  
Y. TAKANO, K. HONDA, Y. MATSUZAKI & R. SAITO
- A228** **Brainstem injection of lidocaine induces the activation of descending pain-inhibitory mechanisms in a rat model of mononeuropathy**  
S.F. ATWEH, J. BOU-DAGHER, J. BARCHINI, S. TCHAGCHAGIAN, S.J. JABBUR & N.E. SAADE
- A229** **Impaired neuropathic pain in Sortilin deficient mice following peripheral nerve injury**  
C.B. VAEGTER, M. RICHNER, L.T. PALLESEN & A. NYKJAER
- A230** **Loss of serotonergic neurons, oxidative stress damage and cell death at the RVM during painful diabetic neuropathy**  
C. MORGADO, P. PEREIRA-TERRA, M. MARTINS-OLIVEIRA, D. RAPOSO & I. TAVARES
- A231** **Fifth lumbar spinal nerve injury causes neurochemical changes in corresponding as well as adjacent spinal segments. A possible mechanism underlying neuropathic pain**  
S. SHEHAB
- A232** **Minocycline differently affects analgesic efficacy of opioid receptor ligands in a rat model of neuropathic pain**  
J. MIKA, E. ROJEWSKA, W. MAKUCH, K. STAROWICZ, M. ZYCHOWSKA & B. PRZEWLOCKA
- A233** **Loss of calcineurin in the post-synaptic density of spinal dorsal horn neurons contributes to neuropathic pain following chronic constriction injury of the rat sciatic nerve**  
G. MILETIC, J.A. LIPPITT, K.M. SULLIVAN & V. MILETIC
- A234** **Long-lasting pruritic dermatitis in rats neonatally treated with capsaicin or its analog; a potential rat model reflecting a broad spectrum of chronic itch**  
K.Y. JEONG, S.K. BACK, C. LI, M.A. KIM, E.J. LIM, J. LEE, H.J. KIM & H.S. NA
- A235** **Interleukin-10 plays a key role in additive relief of neuropathic pain following repeated treatment of propentofylline in a rat model**  
H. YI, S. BACK, J. PARK, J. LEE, S. BEAK, C. LI, K. JEONG & H. NA
- A236** **The coexistence of stress and neuropathic pain leads to an impairment of noradrenergic locus coeruleus neurons**  
L. BRAVO, S. TORRES-SÁNCHEZ, C. ALBA-DELGADO, R. REY-BREA, J. MICÓ & E. BERROCOSO
- A237** **Early intervention of ERK activation in the spinal cord can block the initiation of peripheral nerve injury-induced neuropathic pain in rats**  
M. HAN & R. HUANG
- A238** **Inhibition of neuropathic manifestations following nerve injury in rats by spinal cord stimulation involves both segmental and supraspinal mechanisms**  
N.E. SAADE, J. BARCHINI, S. TCHAGCHAGIAN, S.J. JABBUR, Z. SONG, B.A. MEYRSON & B. LINDEROTH
- A239** **Potential anti-migraine effect of melatonin in the nitroglycerin-infusion model**  
S. MANEESRI LE GRAND, P. PHANSUWAN-PUJITO, S. PATUMRAJ & A. SRIKIATKHACHORN



- A240** Modulation of hyperpolarization-activated channels by eugenol dissects mechanical allodynia and thermal hyperalgesia following peripheral nerve injury  
S.J. JUNG, K.-Y. YEON, G. CHUNG, Y.H. KIM, J.H. HWANG, A.J. DAVIES, M.-K. PARK, D.K. AHN, J.S. KIM & S.B. OH
- A241** Facial injections of pruritogens or algogens elicit distinct behavior responses in rats and excite overlapping populations of primary sensory and trigeminal subnucleus caudalis neurons  
A.H. KLEIN, M. IODI CARSTENS & E. CARSTENS
- A242** CX3CL1 is involved in the LTP of C-fiber evoked field potential in spinal cord  
C. BIAN, Y.Q. ZHANG & Z.Q. ZHAO
- A243** Co-culture model of porcine DRG neurons and keratinocytes to investigate neuron specific interaction  
L. PONCE, A. KLUSCH, I. SCHÄFER, A. HOLLOSCHI, M. SCHMELZ, M. HAFNER & M. PETERSEN
- A244** Expression of protein kinases in the central branch of the dorsal root ganglia  
M. NAIDU, R. ASHER & J. FAWCETT
- 
- 11. Sensory systems (Visual systems)**
- 
- A245** Lesions of the primate striate cortex (V1) during infancy and in adulthood differentially alter the interconnectivity of the visual thalamic nuclei and middle temporal (MT) area  
C. WARNER & J.A. BOURNE
- A246** Eye position signals in monkey medial posterior parietal cortex: combined influence of vergence and version  
R. BREVEGLIERI, G. DAL BO', K. HADJIDIMITRAKIS, F. BERTOZZI, A. BOSCO, C. GALLETTI & P. FATTORI
- A247** Orientation-selective information encoded and decoded in human primary visual cortex  
K. CHENG, P. SUN, S. MOKHTARY, D.J. HEEGER, K. TANAKA & J.L. GARDNER
- A248** Attentional reorienting in reach-related cortex as evidenced by rTMS  
M. CIAVARRO, E. AMBROSINI, G. COMMITTERI, P. FATTORI & C. GALLETTI
- A249** Transcranial electrical currents to probe crossmodal phosphenes  
S. CONVENTO, G. VALLAR, C. GALANTINI & N. BOLOGNINI
- A250** Effect of experimental glaucoma on the non-image forming visual system  
N. DE ZAVALÍA, S.A. PLANO, D.C. FERNANDEZ, M.F. LANZANI, E. SALIDO, N. BELFORTE, M.I. KELLER SARMIENTO, D. GOLOMBEK & R.E. ROSENSTEIN
- A251** Patch-clamp studies on membrane patches excised from Drosophila photoreceptor rhabdomeres support a role of DAG on the activation of TRP and TRPL channels  
R. DELGADO & J. BACIGALUPO
- A252** Time dependence of fixational evoked potentials (fERP) along successive visual fixations during free viewing of natural scenes  
C. DEVIA, P. GALAZ, R. MAYOL & P. MALDONADO
- A253** Vestibular system directly modulates somatosensory cortical processing  
E.R. FERRÈ, G. BOTTINI & P. HAGGARD
- A254** Frequency pattern and strength of oscillations in activity of cats superior colliculus neurons  
A. FOJK, M. WYPYCH, G. MOCHOL & W.J. WALESZCZYK
- A255** New insights on the dynamic cortical association field in the cat primary visual cortex  
F. GERARD-MERCIER, P.V. CARELLI, M. PANANCEAU, A. DARET & Y. FRÉGNAC
- A256** Expression of novel opsins in the vertebrate inner retina: a new type of photoreceptor cells?  
M.E. GUIDO, P.S. NIETO, D.M. VERRA, N.M. DIAZ, D.J. VALDEZ, V.A. ACOSTA-RODRIGUEZ, L.P. MORERA, M.A. CONTIN & D. HICKS
- A257** Fix your eyes where you can reach: neurons in the macaque medial parietal cortex prefer gaze positions in peripersonal space  
K. HADJIDIMITRAKIS, F. BERTOZZI, R. BREVEGLIERI, G. DAL BO', A. BOSCO, C. GALLETTI & P. FATTORI
- A258** The functional and anatomical changes of retinotopy induced by early postnatal monocular enucleation in the visual system  
K. KAMEYAMA, Y. TSUCHIE, H. MIYATA & Y. HATA
- A259** Contributions of primate prefrontal and posterior parietal cortex in guiding visual attention  
F. KATSUKI & C. CONSTANTINIDIS
- A260** Differential contribution of feedforward and local input signals toward local field potentials in the macaque middle temporal area  
F.A. KHAWAJA & C.C. PACK
- A261** Localisation of two groups of neurons with different dynamics of orientation tuning in functional modules of cat's primary visual cortex  
S.A. KOZHUKHOV, N.A. LASAREVA, R.V. NOVIKOVA, A.S. TIKHOMIROV, D.Y. TSUTSKIRIDZE, R.S. IVANOV & I.V. BONDAR
- A262** Correlation of the electrical activity recorded from the sensory cortex and paraventricular nucleus of virgin and post-lactating rats  
M.A. LARA GARCIA, O.D. LARA GARCIA, A. CORTÉS-SOL, M. ALVARADO & P. PACHECO



## POSTER PRESENTATION

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- A263** PRMT8 regulates critical period plasticity in mouse visual cortex  
P.K.M. LEE, T.T.V. CHING, M. BEZZI, E. GUCCIONE & J.C.G. SNG
- A264** Analysis of sensory afferents of extraocular muscles in the trigeminal ganglion and their sensory endings in eye muscle of the rat  
K. LIENBACHER, H. KIMURA & A.K.E. HORN
- A265** Effects of senescence on human chromatic and achromatic spatial contrast sensitivity  
M.G. LIMA, G.S. SOUZA, B.D. GOMES, A.R. RODRIGUES & L.C.L. SILVEIRA
- A266** Intracellular signaling pathways involved in thrombin-induced RPE cell proliferation  
A.M. LOPEZ-COLOME, A. PARRALES & E. LÓPEZ
- A267** Does H<sup>+</sup> release from horizontal cells mediate lateral feedback inhibition in the outer retina? A tale of two techniques  
R.P. MALCHOW, J. JACOBY, S.T. ALFORD, H. QIAN & M.A. KREITZER
- A268** Statistical analysis of fixation and saccades during free viewing of natural scenes  
R. MAYOL, C. DEVIA, P. GALAZ & P. MALDONADO
- A269** The postnatal expression of histaminergic ganglion cells in the developing gerbil retina  
H. IMADA, M. OHKUMA & E.-I. MIYACHI
- A270** *In vivo* two-photon calcium imaging of the cellular arrangement and functional connectivity in layer 2/3 of the mouse primary visual cortex  
Y. MORI, K. IKEZOE, J. FURUTAKA, K. KITAMURA, H. TAMURA & I. FUJITA
- A271** Hodological organization of the visual nidopallium in the chick (*Gallus Gallus*). Visual columns in the avian telencephalon?  
P. AHUMADA & J. MPODOZIS
- A272** Touch to see: neuropsychological evidence of a sensory mirror system for touch  
E. OLGIATI, A. MARAVITA, A. XAIZ, L. POSTERARO, F. FERRARO & N. BOLOGNINI
- A273** Infralow rhythm in the olivary pretectal nucleus - modulation by light and role of rod-cone phototransduction pathway  
P. ORLOWSKA, H.J. SZKUDLAREK & M.H. LEWANDOWSKI
- A274** A comparison of receptive field properties between functionally connected neurons in the lateral geniculate nucleus and the perigeniculate nucleus of the cat  
H. OSAKI, T. NAITO, S. SOMA & H. SATO
- A275** Ocular surface wetness is regulated by TRPM8-dependent cold thermoreceptors of the cornea  
A. PARRA, R. MADRID, D. ECHEVARRIA, S. DEL OLMO, C. MORENILLA-PALAO, M.C. ACOSTA, J. GALLAR, A. DHAKA, F. VIANA & C. BELMONTE
- A276** Evidence for a visuo-tactile mirror system in the human somatosensory cortex: a rTMS study  
A. ROSSETTI, A. MARAVITA, C. MINIUSI & N. BOLOGNINI
- A277** Effect of vibration on human retinal layers using electroretinogram  
S.M.M. SHUSHTARIAN
- A278** Crossmodal stimulation influences communication in visual-somatosensory cortical networks of the developing Brown Norway rat  
K. SIEBEN & I.L. HANGANU-OPATZ
- A279** Downregulation of HDAC1 reinstates ocular dominance plasticity in the adult visual cortex  
J.C. SNG, V.K. LIM, D. DONG, W. GOH, J.J. JIN, L. WONG, A. LENNARTSSON, P. CARNINCI, M. FAGIOLINI & T. HENSCH
- A280** Fast response MRI signals in visual object processing areas  
Y. SUNG & S. OGAWA
- A282** The role of eye movements in lightness perception  
M. TOSCANI, M. VALSECCHI & K.R. GEGENFURTNER
- A283** Relationship between tapetum fibrosum and retinal pigment epithelium in the horse  
M. UEHARA, S. TAKAGI, A. SHINOZAKI & Y.Z. HOSAKA
- A284** Optogenetic stimulation of transgenic zebrafish expressing an optimized channelrhodopsin variant  
K. UMEDA, W. SHOJI, S. SAKAI, T. ISHIZUKA & H. YAWO
- A285** Effect of diabetes on the retinal adenosinergic system  
J. VINDEIRINHO, G.N. COSTA, C. CAVADAS & P.F. SANTOS
- A286** Size tuning of inhibitory interactions in the receptive fields of a dragonfly feature-selective neuron  
S.D. WIEDERMAN, J.R. DUNBIER & D.C. O'CARROLL
- A287** mGluR6 deletion downregulates the TRPM1 channel in retinal ON bipolar cells and renders the cells hyperpolarized  
Y. XU, M. FINA, A. DHINGRA, C. KOIKE, T. FURUKAWA & N. VARDI
- A288** Neural correlate of blindsight in the superior colliculus  
M. YOSHIDA, K. TAKAURA & T. ISA

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| <p><b>13. Learning &amp; memory (Neurochemistry &amp; neurobiology)</b></p> <p><b>A289</b> Noradrenergic system influences spatial decision-making tasks depending on the ambiguity<br/><u>S. AMEMIYA</u>, N. KUBOTA, T. NISHIJIMA &amp; I. KITA</p> <p><b>A290</b> Endocannabinoid signaling mediates the impairing effects of stress-level glucocorticoids on memory retrieval<br/><u>P. ATSAK</u>, D. HAUER, P. CAMPOLONGO, G. SCHELLING &amp; B. ROOZENDAAL</p> <p><b>A291</b> Noradrenergic activation of the basolateral amygdala modulates consolidation of object-in-context recognition memory<br/><u>A. BARSEGYAN</u>, J.L. MCGAUGH &amp; B. ROOZENDAAL</p> <p><b>A292</b> Short-term exercise-induced cognitive enhancement in rodents is associated with BDNF-stimulated cell signaling pathways<br/><u>R.G. BECHARA</u>, R. LYNE &amp; A. KELLY</p> <p><b>A293</b> Early postnatal maternal deprivation in rats induces memory deficits in adult life that can be mediated by modification of the cholinergic system and the CREB and ERK1/2 phosphorylation<br/><u>F. BENETTI</u>, M. CAMMAROTA &amp; I.A. IZQUIERDO</p> <p><b>A294</b> Nedd4 and Nedd4-2 E3 ubiquitin ligases - unravelling the physiological roles in the central nervous system<br/><u>D. BONGIORNO</u>, N. BOASE, S. KUMAR &amp; P. PORONNIK</p> <p><b>A295</b> The role of GABA in consolidation, reconsolidation and extinction of memory in an invertebrate model<br/><u>M. CARBÓ TANO</u>, V.A. MOLINA &amp; M.E. PEDREIRA</p> <p><b>A296</b> CPT1c deficiency impairs feeding behaviour, motor function and memory performance<br/><u>P. CARRASCO</u></p> <p><b>A297</b> Effects of acute cholecystokinin in spatial memory in rats<br/><u>E.A. ARAUJO</u>, <u>M.A. CHAMMA</u>, L.S. MAGALHÃES, A.M.S. GOMES, S.A. BARBOSA, H.R. SILVA, C. LOPES &amp; C.A. TIEPPO</p> <p><b>A298</b> Long-term sensitization in the leech: role of a 10 kDa protein<br/><u>C. CIAMPINI</u>, E. BRAMANTI, G. FEDERIGHI, M. BRUNELLI &amp; R. SCURI</p> <p><b>A299</b> Structural correlate of long-term motor memory formation in cerebellar cortex of mice<br/><u>W. AZIZ</u>, W. WANG, Y. FUKAZAWA &amp; R. SHIGEMOTO</p> <p><b>A300</b> The proteasome degradation pathway is involved in object recognition learning and memory processes<br/><u>Á.M. CARRIÓN</u>, Á. FONTÁN-LOZANO, I. SUÁREZ-PEREIRA &amp; R. ROMERO-GRANADOS</p> | <p><b>A301</b> Overlap in neuronal representations of spatial and contextual fear memories in the hippocampus depends on the order of memory reactivation<br/><u>S.A. CHEKHOV</u>, O.I. IVASHKINA, D.V. BEZRIADNOV &amp; K.V. ANOKHIN</p> <p><b>A302</b> MicroRNA expression changes in the ventral striatum and the hippocampus during spatial learning<br/><u>A. FINOCCHIARO</u>, J. CAMON, V. FERRETTI, V. LICURSI, P. FRAGAPANE, C. MANNIRONI, S. VINCENTI, P. PAGGI, A. OLIVERIO, R. NEGRI, C. PRESUTTI &amp; A. MELE</p> <p><b>A303</b> Hippocampal protein expression levels in <i>Fmr 1</i> KO mice following visual-spatial learning<br/><u>R.M. GANDHI</u>, C.S. KOGAN, L. MACLEOD &amp; C. MESSIER</p> <p><b>A304</b> A key role of Synaptic Adhesion-Like Molecule SALM1 in long-term memory through its PDZ binding domain<br/><u>D. GENOUX</u>, B.L. SCHNEIDER, P. AEBISCHER &amp; C. SANDI</p> <p><b>A305</b> Expression of inducible transcriptional factor Zif/268 in the prenatal mouse brain after fetal learning<br/><u>A.A. IVANOVA</u>, A.A. LAZUTKIN, I.Y. ZARAYSKAYA &amp; K.V. ANOKHIN</p> <p><b>A306</b> Impairment of long-term memory by halogenated thymidine analogues in mice<br/><u>O.I. IVASHKINA</u>, M.A. ZOTS, D.V. BEZRIADNOV &amp; K.V. ANOKHIN</p> <p><b>A307</b> Formation of polyribosomes in dendritic spines of barrel field neurons during associative learning<br/><u>M. JASINSKA</u>, E. SIUCINSKA, E. JASEK, M. KOSSUT, E. PYZA &amp; J.A. LITWIN</p> <p><b>A308</b> Are hippocampal NMDA and muscarinic receptors required for memory consolidation? Open field exposure prevents scopolamine and MK801 instigated retrograde amnesia in the rat<br/><u>M. SNITCOFSKY</u>, N.C. COLETTIS, E. KORNISIUK, F. SANTANA, J. QUILLFELDT &amp; <u>D.A. JERUSALINSKY</u></p> <p><b>A309</b> Evaluation of differences in hippocampal synaptic plasticity along the dorsoventral axis<br/><u>J. KENNEY</u> &amp; D. MANAHAN-VAUGHAN</p> <p><b>A310</b> A-type voltage gated potassium channels regulate proliferation in dentate gyrus and memory function in adult mice<br/><u>F. KHAN</u>, F. KANEEZ SHAD &amp; S. SIDDIQUE</p> <p><b>A311</b> Monitoring cell surface protein trafficking in the striatum and the hippocampus of the mouse during early versus late visual-spatial learning<br/><u>A. LAEREMANS</u>, B. VAN DE PLAS, I. GANTOIS, R. D'HOOGHE, D. BALSCHUN &amp; L. ARCKENS</p> <p><b>A312</b> The role of DNA ligase IV on hippocampal synaptic plasticity and remote memory<br/><u>J.Y. LAGUNA TORRES</u>, M. COLÓN CESARIO, E. CASTRO, I. SANTOS SOTO &amp; S. PEÑA DE ORTIZ</p> |
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## POSTER PRESENTATION

Friday July 15

- A313** Expression of c-Fos reveals areal and regional diversity of retrosplenial cortex during acquisition of spatial place avoidance in the rat  
M.E. MALINOWSKA & M.J. WESIERSKA
- A314** Epigenetic modifications in the ventral striatum are necessary for long term memory stabilization  
A. MASTRODONATO, D. GAGLIO, E. MINICOCCI, P. FRAGAPANE, M. MUSTO, A. OLIVERIO, G. CAMILLONI & A. MELE
- A315** Single bouts of exercise improve learning in the rat: assessment of underlying mechanisms  
S.V. MC CREDDIN & Á.M. KELLY
- A316** Investigating neuronal circuits in the Dentate Gyrus  
C.J. MCCLURE, A.J. MURRAY, K. COLE, L. CHEYNE, G. RIEDEL & P. WULFF
- A317** Autoshaping, memory, forgetting: 5-HT<sub>6</sub> and 5-HT<sub>7</sub> receptors, SERT and transporters of other neurotransmission systems  
A. MENESES, G. PEREZ-GARCIA, R. TELLEZ, T. PONCE-LOPEZ, A. GALLEGOS-CARI & C. CASTILLO
- A318** Relative changes of intrinsic excitability are sufficient for preferential recruitment of neurons into a fear memory trace  
V. MERCALDO, A.P. YIU, S.A. KUSHNER, P.W. FRANKLAND & S.A. JOSSELYN
- A319** CREB function is required for structural re-arrangements occurring during memory formation  
S. MIDDEI, G.H. HOUELAND, A. SPALLONI, P. LONGONE, C. PITTENGER, M. D'AMELIO, V. CAVALLUCCI, S.M. O'MARA, M. AMMASSARI-TEULE & H. MARIE
- A320** NCX3 knock-out mice display an impairment in hippocampal LTP and spatial learning and memory  
P. MOLINARO, D. VIGGIANO, R. NISTICÒ, A. SECONDO, R. SIRABELLA, F. BOSCIA, A. PANNAZIONE, A. SCORZIELLO, B. MEHDAWY, S. SOKOLOW, A. HERCHUELZ, G. DI RENZO & L. ANNUNZIATO
- A321** Expression of rat hippocampal *Arc* and *Homer 1a* in spatial learning using 8-arm and 12-arm radial mazes  
N. NIKBAKHT NASRABADI, B. ZAREI, E. SHIRANI, J. MOSHTAGHIAN, A. ESMAELI & S. HABIBIAN
- A322** Inducible system for mapping neuronal assemblies  
D.K. RANGEL GUERRERO, H. OKUNO & V. RAMÍREZ AMAYA
- A323** Conditioned taste aversion induces persistent modification of in vivo neocortical long-term potentiation threshold: molecular mechanisms implicated  
L.F. RODRÍGUEZ-DURÁN, D.V. CASTILLO, M.G. MOGUEL-GONZALEZ, S. ANGELES-DURÁN & M.L. ESCOBAR
- A324** Role of NMDA receptor and nitric oxide synthesis in the olfactory bulb and amygdala in conditioned odour aversion  
G.R. ROLDÁN, H. GONZÁLEZ-SÁNCHEZ, A. QUIROZ & J. TOVAR-DÍAZ
- A325** The absence of CX3CR1 abolished the potentiating effect of enriched environment on hippocampal plasticity and learning processes  
M. SCIANNI, L. MAGGI, I. BRANCHI, I. D'ANDREA, C. LAURO & C. LIMATOLA
- A326** Histone H1 Poly[ADP]-Ribosylation regulates the chromatin alterations required for learning consolidation  
I. SUÁREZ-PEREIRA, Á. FONTÁN-LOZANO, Y. DEL POZO-MARTÍN & Á.M. CARRIÓN
- A327** How the hippocampus regulates object working memory load: the role of protein kinases  
G. TORROMINO, S. SANNINO, F. RUSSO, V. PERRI, P. FRAGAPANE, A. MELE & E. DE LEONIBUS
- A328** Excessive synaptic growth and defects of learning dependent spinogenesis in *Eps8 knock out* mice  
S. ZAMBETTI, E. MENNA, G. FOSSATI, D. BRAIDA, A. DONZELLI, S. CONDLIFFE, M. ORLANDO, M. FRANCOLINI, C. REGONDI, C. FRASSONI, M. SALA & M. MATTEOLI
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- 14. Cognition & emotion (General, pharmacology & toxicology)**
- A329** Assessment of cognitive functions and some markers of synaptic plasticity in diabetic rats  
S.N. AMIN, S.M. YOUNAN, M. FAROUK, L.A. RASHED & I. MOHAMADY
- A330** Motivation for social interaction induced production of rich and wide USV repertoire in adult male mice  
J. CHABOUT, P. SERREAU, L. BELLIER, E. EY, T. BOURGERON, T. AUBIN & S. GRANON
- A331** Neurophilosophy: reconciliation of philosophy and science  
S.S. DASTGHEIB
- A332** Serotonin precursor (5-hydroxytryptophan) has a profound effect on aggressive interactions in male crickets, *Gryllus bimaculatus*  
V. DYAKONOVA & A. KRUSHINSKY
- A333** Decreased locomotor activity in enriched mice is independent of the duration of the enrichment period: a longitudinal study in NMRI mice  
P. MESA-GRESA, A. PÉREZ-MARTÍNEZ & R. REDOLAT
- A334** Effects of a visual illusion on zebrafish behavior  
M. NAJAFIAN, N. ALERASOOL & J. MOSHTAGHIAN

- A335** Influence of exposure to an enriched environment on changes induced in locomotor and exploratory behavior by chronic social stress in NMRI male mice  
A. PÉREZ-MARTÍNEZ, P. MESA-GRESA & R. REDOLAT
- A336** Long-term effects of early exposure to environmental enrichment on exploratory behavior in NMRI male mice  
R. REDOLAT, P. MESA-GRESA & A. PÉREZ-MARTÍNEZ
- A337** Locomotor activity stimulatory effects of neuropeptide S in mice are due to selective NPSR activation and display no tolerance liability  
C. RUZZA, A. RIZZI, G. MARZOLA, A. PULGA, R. GUERRINI & G. CALÒ
- A338** One for all and all for one: the importance of shoaling on behavioral and stress responses in zebrafish  
N. PAGNUSSAT, A. PIATO, I. SCHAEFER, A.R. TAMBORSKI, C. BONAN, D.R. LARA & M.R. VIANNA
- A339** Working memory, anxiety and depression in an animal model of iron deficiency  
P. VIEYRA-REYES, B.F. PLIEGO-RIVERO & P. REYES-TAPIA
- A340** Differential patterns of cognitive function impairment in animal models of psychiatric disorders  
J. WALLACE, R. MCQUADE, H.M. MARSTON & S.E. GARTSIDE
- A341** The theory of neuronal epistemology: cognitive and emotional implications  
Y. ZAMBRANO
- A342** The effects of inactivation of rat anterior insular cortex and orbitofrontal cortex on risk preference in the amount and delay gambling tasks  
H. ISHII, S. OHARA, K.-I. TSUTSUI & T. IJIMA
- A343** REM sleep promoting effects of melanin-concentrating hormone (MCH) microinjections into the dorsal raphe nucleus  
P. LAGOS, H. JANTOS, J.M. MONTI & P. TORTEROLO
- A344** Orexin a injection into medial preoptic area inhibit maternal behavior in rats  
M. OLFAT, A. SARIHI, M. HOSEINI PANAH, A.H. EMAM, M. VAFAI RAD & S. SEIF
- A345** The influence of halothane on behavioral parameters of rats with midazolam premedication  
Z. VADACHKORIA, L. DZIDZIGURI, E. MITAISHVILI, G. MOSIDZE, E. BAKURADZE, I. MODEBADZE & D. DZIDZIGURI
- A346** Subanesthetic doses of NMDA antagonist ketamine interfere with logically based decision-making in monkeys  
E. BRUNAMONTI, F. DI BELLO, V. MIONE & S. FERRAINA
- A347** Pharmacological modulation of LPA-mediated signaling in depression-like behaviors  
C. ROSELL-VALLE, C. PEDRAZA, E. CASTILLA-ORTEGA, J.M. CARAMÉS, A.I. GÓMEZ-CONDE, M. CIFUENTES, J. CHUN, F. RODRÍGUEZ DE FONSECA, L.J. SANTÍN & G. ESTIVILL-TORRÚS
- A348** Activation of cannabinoid CB1 receptors of basolateral amygdala potentiates nicotine reward in rats  
S. HASHEMI ZADEHA, A. REZAYOF, M. SARDARI & M.R. ZARRINDAST
- A349** Activation of 5-HT3 receptor disrupts development of gamma oscillations in hippocampal CA1  
Y. HUANG, K. YOON, H. KO, S. JIAO & A. MOROZOV
- A350** Emotional and cognitive consequences of repeated cannabis administration and intermittent MDMA ("ecstasy") exposure in adolescent male and female rats  
A. LLORENTE-BERZAL, R. LLORENTE, M.P. VIVEROS & E.M. MARCO
- A351** Behavioural and neurochemical effects of exposure to organophosphate pesticides  
C.Y. SAVY, C.M. MORRIS, P.G. BLAIN & S.J. JUDGE
- A352** Effects of positive modulators of GABAergic signaling on cognitive impairments in a rat model of schizophrenia  
M.R. STEFANI, R.S. WARD, C.M. CURTIN, A.E. LEHMANN, E.C. MASSEAU, N.E. WOOD & E.L. FEIGHERY
- A353** Effects of anpirtoline on acoustic startle responses and sensorimotor gating in rats  
D.A. WELDON & C.M. BRIGGS
- A354** Functional correlates of hippocampal theta: cannabinoids and novelty dissociate two components of the theta frequency-speed relationship  
D.P. AMOS, C. LEVER & J. O'KEEFE
- A355** EEG spectral measurements during the presentation of the International Affective Pictures (IAPs)  
M. ERZSEBET, P. BELÉN, G. YAÑEZ, M.A. RODRÍGUEZ, H.O. RODRÍGUEZ & V. GUERRERO
- A356** Comparison of the EEG pattern during meditation or music listening in humans  
O. GOZDZIEWICZ & E. JURKOWLANIEC
- A357** The effect on the activity of the cerebral cortex during a coincidence-anticipation timing task: changes in the rations of the visible section and the masking section  
R. KOSHIZAWA, A. MORI, K. OKI, T. OZAWA, M. TAKAYOSE & N. MINAKAWA
- A358** Neurophysiology of executive control in the stop-signal paradigm: effect of trait anxiety  
E.A. LEVIN, A.N. SAVOSTYANOV, A.C. TSAI, A.Y. ZHIGALOV, J.-D. LEE & M. LIOU



## POSTER PRESENTATION

- A359** The mechanism of amygdala  $\beta$ -adrenergic receptor activation in the reinstatement of conditioned fear  
H.-C. LIN, Y.-C. TSENG, S.-C. MAO, P.-S. CHEN, C.-H. YEH & P.-W. GEAN
- A360** Occurrence patterns of the electroencephalogram (EEG) for infants  
N.T. MINAKAWA, A. MORI, K. OKI, R. KOSHIZAWA, M. TAKAYOSE & H. KUSHI
- A361** The effect of a high intensity exercise load on cerebral activity during a choice reaction task  
K. OKI, A. MORI, R. KOSHIZAWA, M. TAKAYOSE, T. OZAWA, N.T. MINAKAWA & Y. KITA
- A362** Acute stress fails to induce major changes in head-directionally tuned cells of the post and presubiculum  
J. PASSECKER, V. HOK, A. DELLA-CHIESA & S.M. O'MARA
- A363** Exploring emotional interrelations with motor performance: adjustments to visual distortion during a visuo-motor task  
E. QUARTA, D. MINCIACCHI & S. HANNETON
- A364** Physiological and neuropsychological impact from domestic violence  
A. MOZZAMBANI, R. RIBEIRO, S. FUSO & M. MELLO
- A365** Fm theta brain wave activity during plastic model building  
M. TAKAO, M. YAMAGAMI, J. TANIUCHI, N. MASUDA, H. SHIMIZU & T. KAMEI
- A366** EEG frontal activity to accurate inhibition during a visual oddball task  
M. TAKAYOSE, A. MORI, T. OZAWA, K. OKI, R. KOSHIZAWA & N.T. MINAKAWA
- A367** Event-related desynchronization of alpha-band rhythm caused by anticipation of mimic collision: MEG study  
K. YOKOSAWA, D. KIKUZAWA, T. WATANABE, F. TAKEUCHI, K. SEKIHARA, G. AOYAMA, M. TAKAHASHI & S. KURIKI
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- 15. Neurodegeneration & aging (Alzheimer's disease)**
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- A368** Hippocampal distribution of neuropeptide Y in rat model of streptozotocin-induced experimental dementia of Alzheimer's type  
A. ARIZA ANDRADE, R. ANDRADE ESPINOZA & L.A. AGUILAR MENDOZA
- A369** Increased tunnel positive cells in all subfields of rat hippocampus due to ethanol administration after memory reactivation  
K. ABRARI, J. ALIJAN-POUR, T. LASHKAR BLUKI, M.T. GHORBANIAN, I. GOUDARZI & M. ELAHDADI SALMANI
- A370** Targeting an aggregation of alpha-synuclein to the mouse forebrain as a model of dementia with Lewy bodies  
O. ANICHTCHIK & M.G. SPILLANTINI
- A371** Astroglial changes in the hippocampus of APP transgenic mice. Effects of environmental enrichment  
J. BEAUQUIS, P. ROIG, V. GALVÁN, A.F. DE NICOLA & F.E. SARAVIA
- A372** Curcumin effects against amyloid  $\beta$ -induced toxicity: role of protein SUMOylation  
J. BENDER HOPPE, C. SALBEGO, M. RATTRAY, B. WHALLEY & H. CIMAROSTI
- A373** No correlation between cell cycle disturbances, secreted Abeta levels, and clinical parameters of familial Alzheimer's disease patients with various presenilin 1 mutations  
E. BIALOPIOTROWICZ, B. KUZNIEWSKA, N. KACHAMAKOVA-TROJANOWSKA, A. SZYBINSKA, J. KUZNICKI & U. WOJDA
- A374** Altered intracellular distribution of PrP<sup>c</sup> and impairment of proteasome activity in tau-overexpressing cortical neurons  
N. CANU, I. FILESI, A. PRISTERA & S. BIOCCA
- A375** Intranasal administration of an optimized human nerve growth factor reduces memory deficit and amyloid oligomers accumulation in APPxPS1 mice  
S. CAPSONI, S. COVACEUSZACH, S. MARINELLI, M. CECI, D. VIGNONE, G. AMATO, F. PAOLETTI, F. MALERBA, G. UGOLINI, F. PAVONE & A. CATTANEO
- A376** Endogenous glial-mediated protective mechanisms against A $\beta$  aggregation and neurotoxicity  
R.S. CHUNG, C. HOWELLS, E.D. EATON, W.R. BENNETT & A.K. WEST
- A377** Inhibition of glial cells ameliorate amyloid beta-induced changes in intrinsic neuronal excitability  
S. DARIANI, M. HAGHANI, M. SHABANI & M. JANAHMADI
- A378** Synaptic dysfunction in Alzheimer's disease: the role of Synaptobrevin1/VAMP1  
A. LÖRINCZ, F. ZOU, D.W. DICKSON, N.R. GRAFF-RADFORD, R.C. PETERSEN, S.G. YOUNKIN & F. DEÁK
- A379** APP intracellular domain enhances neurite outgrowth through G $\alpha_s$  coupling to adenylate cyclase signaling  
C. DEYTS, K. VETRIVEL, Y. SHEPHERD, G. THINAKARAN & A. PARENT
- A380** Zinc mitigates the onset of aluminium induced neurodegeneration  
D.K. DHAWAN & N. SINGLA

- A381 Adult hippocampal neurogenesis and cortical gliogenesis in APP mutant mice**  
T. ED DAMI, A. FIORENTINI, C. GROSSI, I. LUCCARINI, C. TRAINI & F. CASAMENTI
- A382 In vitro study of beta-amyloid-specific T cell responses in humans**  
D. ETHELL, A. BEGUM & X. WUSHOUER
- A383 WIN55,212-2 attenuates amyloid-beta-induced neuroinflammation in rats: involvement of peroxisome proliferator-activated receptor gamma**  
G. FAKHFOURI, A. AHMADIANI, R. RAHIMIAN, F. MORADI & A. HAERI
- A384 Age-related variations of peroxisomes in the neocortex and hippocampus of a transgenic mouse model of Alzheimer's disease**  
E. FANELLI, L. CRISTIANO, E. BENEDETTI, B. D'ANGELO, M. D'AMELIO, S. SEPE, C. BERNARDI, F. CECCONI, A. CIMINI, M.P. CERÙ & S. MORENO
- A385 Atheromatosis extent in coronary artery disease is not correlated with apolipoprotein-E polymorphism and its plasma levels, but associated with cognitive decline**  
C.N. FERREIRA, L.M. LIMA, M.G. CARVALHO, H.J. REIS, A. PALOTAS & M.O. SOUZA
- A386 Microglia is differentially activated by  $\beta$ -amyloid soluble aggregates**  
D. FERRERA, C. CANALE, F. BENFENATI & L. GASPARINI
- A387 The relationship between inflammation and Alzheimer's disease in a South African population**  
L. GRACE & M. COMBRINCK
- A388 Hyperhomocysteinemia induced mitochondrial dysfunction and oxidative damage in rat brain: implications in Alzheimer's disease**  
P. BEHERA & S. CHAKRABARTI
- A389  $Ca^{2+}$  release from ER stores in Alzheimer's disease models**  
J. GRUSZCZYNSKA-BIEGALA, A. JAWORSKA, A. SZYBINSKA, K. HONARNEJAD, J. HERMS & J. KUZNICKI
- A390 17 $\beta$  estradiol reverses the effect of beta-amyloid injection in hippocampus**  
R. GUEVARA GUZMAN, C. BERNAL-MONDRAGON & S. RIVAS-ARANCIBIA
- A391 The Vps10p-domain receptor sortilin interacts with amyloid precursor protein and might affect its intracellular traffic and processing**  
C. GUSTAFSEN, A.-S. CARLO, A. NYKJÆR, P. MADSEN, T. WILLNOW & C.M. PETERSEN
- A392 Clinicopathological study of diffuse neurofibrillary tangles with calcification - with special reference to TDP-43 proteinopathy and alpha-synucleinopathy**  
C. HABUCHI, S. IRITANI, H. SEKIGUCHI, Y. TORII, T. ARAI, M. HASEGAWA, H. AKIYAMA, H. SHIBAYAMA & N. OZAKI
- A393 CB1 cannabinoid receptors activation protects rat hippocampal CA1 pyramidal neurons from aberrant alterations in intrinsic electrophysiological properties induced by amyloid  $\beta$  peptide**  
M. HAGHANI, Z. GHOTBEDIN, M. SHABANI & M. JANAHMADI
- A394 Early inflammatory process in a novel transgenic rat model of Alzheimer's disease**  
C.E. HANZEL, M.F. IULITA, S. ALLARD & A.C. CUELLO
- A395 Iron and amyloid  $\beta$  peptide oligomers enhance ryanodine receptor-mediated calcium release in primary hippocampal neurons which in turn stimulates mitochondrial fission**  
C. HIDALGO, C. SANMARTIN, A. PAULA-LIMA, S. HARTEL, A. GARCIA & M.T. NUÑEZ
- A396 Brain alterations in nerve growth factor metabolism in a novel rat transgenic model of Alzheimer's disease**  
M.F. IULITA, C.E. HANZEL, S. ALLARD, W.C. LEON & A.C. CUELLO
- A397  $A\beta_{42}$  oligomers alter  $Ca^{2+}$  dynamics in mouse primary neuronal cultures**  
M.J. KIPANYULA, C. LAZZARI, L. CONTRERAS, E. ZAMPESE, T. POZZAN, A. PICCINI, M. TABATON & C. FASOLATO
- A398 *In vitro* studies of the pathogenic effect of missense mutations on key biological properties of progranulin associated with CNS neurodegeneration**  
G. KLEINBERGER, A. CAPELL, N. BROUWERS, K. SLEEGERS, M. CRUTS, C. HAASS & C. VAN BROECKHOVEN
- A399 Allomargaritarine as potential neuroprotector**  
S.G. KLOCHKOY, M.E. NEGANOVA, S.V. AFANAS'EVA & E.F. SHEVTSOVA
- A400 Extracellular actions of tau protein on choline transporters CHT1 and detection of tau via surface plasmon resonance biosensor**  
Z. KRISTOFIKOVA, D. RIPOVA, K. HEGNEROVA, M. BOCKOVA & J. HOMOLA
- A401 Gene signature and Epstein Barr virus infections in Alzheimer's disease**  
F. LICASTRO, T. LAZZAROTTO, I. CARBONE, M. IANNI & E. PORCELLINI
- A402 The APP/PS1 mouse cerebellum: a morphological study**  
S. LOMOIO, E. ASO, M. CARMONA, D. NECCHI, E. SCHERINI & I. FERRER



## POSTER PRESENTATION

Friday July 15

- A403** **A key role for lysine residues in amyloid  $\beta$ -protein folding, assembly and toxicity**  
D. LOPES, S. SINHA & G. BITAN
- A405** **Effect of amyloid-beta (25-35) on glutamate receptor subunit gene expression in rat hippocampal slices**  
J. MAYORDOMO-CAVA, M.O. NAVA, J. YAJEYA, J.D. NAVARRO-LOPEZ & L. JIMENEZ-DIAZ
- A406** **Strategic modification of brain ganglioside distribution to protect against neurodegeneration, aberrant protein folding, and cognitive impairment**  
M.P. MCDONALD, A. DHANUSHKODI, E. AKANO, L. DANTZLER, L.C. GREGG, Y. XUE, T. OYELAMI & S.K. RAO
- A407** **Effects of neuronal activity on intra- and extra-cellular beta amyloid in a transgenic murine model of Alzheimer's disease**  
F. MONTAROLO, R. PAROLISI, E. HOXHA & F. TEMPIA
- A408** **Activity of retinal ganglion cells is impaired in the P301S mutant human tau transgenic mouse**  
M. NADIA, E. BARINI, M. GOEDERT, M.G. SPILLANTINI, A. BLAU, P. MEDINI & L. GASPARINI
- A409** **Effects of amyloid-beta(25-35) on inhibitory fimbria-CA3 hippocampal synapse responses**  
M.O. NAVA, L. JIMENEZ-DIAZ, J. MAYORDOMO, A. DELAFUENTE, J. CRIADO, A. RIOLOBOS, M. HEREDIA, J. YAJEYA & J.D. NAVARRO-LÓPEZ
- A410** **Iron transporters DMT1 and ZIP14 expression in hippocampus and cortex of control and APPswe/PS1 mice**  
 J. SALAZAR, P. URRUTIA & M.T. NUNEZ
- A411** **Inhibition of choline acetyltransferase as a mechanism for ADDLs induced cholinergic dysfunction**  
N. NUNES-TAVARES, L.E. SANTOS, J.B. MOREIRA, T.R. BOMFIM, F.F. OLIVEIRA & F.G. DE MELLO
- A412** **Niemann-pick disease type C1 (Npc1) effectively protects against tauopathy**  
 S. ZONNUR, V. MESKE, F. ALBERT, R. DÖSCHER, F. GLÖCKNER, J. GÖTZ & T.G. OHM
- A413** **Herpes simplex virus type 1 (HSV-1) increases the excitability of rat neocortical neurons and triggers amyloid precursor protein (APP) processing**  
R. PIACENTINI, C. RIPOLI, L. CIVITELLI, M.E. MARCOCCI, G. DE CHIARA, A.T. PALAMARA & C. GRASSI
- A414** **Mild Cognitive Impairment single-domain: a case report on the self location and mental body transformation in the space**  
M. PISTELLI, D. DI GIACOMO, M. DI PAOLA & D. PASSAFIUME
- A415** **Alzheimer's disease amyloid  $\beta$ -protein mutations and deletions that define neuronal binding**  
J.F. PODUSLO, N.C. OLSON & K.G. HOWELL
- A416** **Amyloid-beta peptide induces PCNA expression and appearance of binucleated neurons in rat hippocampus**  
M.S. POPOVA, M.Y. STEPANICHEV, N.A. LAZAREVA & N.V. GULYAEVA
- A417** **The role of tauroursodeoxycholic acid as a modulator of amyloid  $\beta$ -induced synaptic toxicity**  
R.M. RAMALHO, A.F. NUNES, R.B. DIAS & C.M.P. RODRIGUES
- A418** **Elevated cytokine release by peripheral blood mononuclear cells and resistance to  $\beta$ -amyloid peptide in the elderly manifest in Alzheimer's disease patients**  
H.J. REIS, N.P. ROCHA, A.L. TEIXEIRA, P. CARAMELLI, H.C. GUIMARAES & A. PALOTAS
- A419** **Effects of different forms of amyloid  $\beta$ -peptide on synaptic function**  
C. RIPOLI, E. RICCARDI, R. PIACENTINI, L. LEONE, G. BITAN & C. GRASSI
- A420** **The relationship between medial temporal lobe and cortical volumetric measurements and metabolic rates in controls, mild cognitive impairment, and Alzheimer's disease**  
Y.Y. SAID, W. TSUI, E. PIRRAGLIA, Y. LI, B. KUCZYNSKI & M.J. DELEON
- A421** **Alzheimer's disease and synaptic dysfunction: the role of JNK**  
A. SCLIP, X. ANTONIOU, D. CARDINETTI, A. ARNABOLDI, P. VEGLIANESE, M. MESSA & T. BORSELLO
- A422** **Regulation of APP processing and abeta production by GSK-3 signaling and its pharmaceutical potential**  
 P.T.T. LY, H. ZOU, W. ZHOU & W. SONG
- A423** **Identification of aberrantly expressed microRNAs in Alzheimer's disease**  
L. STÖCKMANN, M. WOLTER, P. ZIPPER, K. GIERGA, S. WEGGEN & G. REIFENBERGER
- A424** **REST regulates *DYRK1A* transcription in a negative feedback loop**  
X. SUN, M. LU, L. ZHENG & L. WANG
- A425** **Synaptic alterations of human caudate nucleus in Alzheimer's disease**  
K. TSAMIS, D. MYTILINAIOS, M. CHIOTELLI, S. NJAU & S. BALOYANNIS
- A426** **Identification of sodium selenate as a potential treatment for Alzheimer's disease**  
J. VAN EERSEL, Y.D. KE, X. LIU, F. DELERUE, J.J. KRIL, J. GOTZ & L.M. ITTNER



- A427** Multiple transmitter receptor changes in the forebrain of a transgene mouse model of Alzheimers disease  
E. VON STADEN, K. AMUNTS & K. ZILLES
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- 16. Neurological disorders (Parkinson & neurodegenerative disorders)**
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- A428** Beta-amyloid and TDP-43 mutually modulate their pathology and parkin promotes their clearance in gene transfer models  
A.M. HERMAN, P. KHANDELWAL & C.E.-H. MOUSSA
- A429** Comparing the motor performance and movement patterns of choreic Huntington's patients with those of dyskinetic Parkinson's patients; insight into basal ganglia dysfunctions  
C. DUVAL
- A430** Disrupted networks topology in Parkinson disease estimated via MRI data and graph theory  
R. RODRIGUEZ-ROJAS, G. SANABRIA, L. MELIE, D. GARCIA, M. CARBALLO, R. GONZALEZ & J.A. OBESO
- A431** Effects of chronic nicotine administration in a rodent model of Parkinson's disease  
J.-R. GARCÍA-MONTES, D. MILLAN-ALDACO, M. PALOMERO-RIVERO, A.-C. EQUIHUA-BENITEZ, M. GUERRA-CRESPO, S. MIHAILESCU, O. PROSPERO-GARCÍA & R.-R. DRUCKER-COLÍN
- A432** The trafficking of GPR37 receptor by interacting proteins  
P. DUTTA & K.K. DEV
- A433** Chronic blockade of neuronal nitric oxide synthase enzyme reduces both L-DOPA-induced dyskinesias and striatal FosB/Delta-FosB overexpression in a rat model of parkinsonism  
F.E. PADOVAN-NETO & E. DEL BEL
- A434** Behavioral and biochemical evaluation of a chronic L-DOPA treatment in a Parkinsonian rat model of depression  
N. SCHINTU, X. ZHANG, A.A. MATHÉ & P. SVENNINGSSON
- A435** Role of alpha-synuclein aggregation and the Nrf2/ HO-1 pathway in iron-induced neurotoxicity  
Q. HE, N. SONG, H. XU, X. YU, J. XIE & H. JIANG
- A436** Altered DAT function in a mouse model of Parkinson disease  
D. LEO, M.-J. BOURQUE, C. KORTLEVEN, E.A. FON & L.-É. TRUDEAU
- A437** The role of G protein-coupled receptor kinase 6 (GRK6) in Parkinson's disease and L-DOPA treatment  
E. MANAGO, A. SALAHPOUR, T. SOTNIKOVA, S. ESPINOZA, M. CARON, R. PREMONT & R. GAINETDINOV
- A438** Central inflammation in early life and silent neurotoxicity in the adult rat brain  
Z. CAI, L.-W. FAN, L.-T. TIEN, Y. PANG, R.C.S. LIN, K.L. SIMPSON & P.G. RHODES
- A439** Treadmill exercise prevents the decrease of tyrosine hydroxylase expression in the 6-hydroxydopamine rat model of Parkinson's disease  
C.C. REAL, A.S. ALVES, A.F. FERREIRA, G.P. CHAVES, R.S. PIRES, A. TORRAO & L.R. BRITTO
- A440** The role of Parkin-Pick1 in mitochondrial dysfunction  
D. DEB & K.K. DEV
- A441** Activation of ATP-sensitive potassium channels enhanced iron uptake and iron-induced oxidative stress in SK-N-SH cells  
X. DU, H. XU, N. SONG, H. JIANG & J. XIE
- A442** PPAR-gamma agonist rosiglitazone inhibits TNF-alpha production by microglia and arrests neurodegeneration in a progressive Parkinson's disease model  
A.R. CARTA, A. PISANU, L. FRAU, S. SPIGA & E. CARBONI
- A443** Nurr1-induced transcriptome („Nurrome"): concentration-dependent effects of Nurr1 on distinct biological processes and implications for CNS therapeutics of Parkinson's disease and drug abuse  
M.J. BANNON & M.M. JOHNSON
- A444** It's the locus coeruleus, James! The role of the locus coeruleus and the noradrenergic system in Parkinsonian tremor  
I.U. ISAIAS, A. MARZEGAN, J. VOLKMANN, G. PEZZOLI & P. CAVALLARI
- A445** Differential effects of levodopa and subthalamic deep brain stimulation on spatial working memory performance in Parkinson's disease  
C.R. CAMALIER, J.A. ALBRITTON, S. PARK, J.S. NEIMAT & B.S. FOLLEY
- A446** CB<sub>1</sub> in the basal ganglia: a morphological and pharmacological approach in an animal model of Parkinson's disease  
G.P. CHAVES, C.Y. MAZUCANTI, C.C. REAL, L.R.G. BRITTO & A.S. TORRÃO
- A447** Evaluation of drugs acting on D<sub>2</sub>-CB<sub>1</sub>-A<sub>2A</sub> receptor oligomers in rat models of Parkinson's disease  
G. COSTA, N. SIMOLA, C.E. MÜLLER, M.-T. ARMENTERO, R. FRANCO & A. PINNA
- A448** Anticonvulsant effects of a CD88 antagonist in several murine seizure models  
M.J. BENSON, N.K. THOMAS, G. LEINENGA, D. SHE, T. WOODRUFF & K. BORGES



## POSTER PRESENTATION

- A449** Bee venom as a new agent for the symptomatic treatment of Parkinson's disease: behavioral and electrophysiological evidence from rat models  
N. MAURICE, L. URIEN, B. DEGOS, C. MELON, C. MOURRE, M. AMALRIC & L. KERKERIAN-LE GOFF
- A450** Role of the striatal direct pathway in normal and pathological behaviors  
D. REVY, H. MARIE, M. AMALRIC, L. KERKERIAN & C. BEURRIER
- A451** Reactive astrocytes as a potential rescuer in rat Parkinsonism with endogenous expression of brain-derived and glial cell-line derived neurotrophic factors  
C.N.P. LUJ, L.W. CHEN & K.K.L. YUNG
- A452** Redistribution of DAT/ $\alpha$ -synuclein complexes visualized "in situ" by proximity ligation assay in a transgenic mouse model of Parkinson's disease  
A. BELLUCCI, L. NAVARRIA, E. FALARTI, M. ZALTIERI, M. SPILLANTINI, C. MISSALE & P. SPANO
- A453** Overexpression of parkin in rat dopaminergic nigrostriatal system protects against methamphetamine neurotoxicity  
A. MOSZCZYNSKA & B.K. YAMAMOTO
- A454** Gene silencing of N-methyl-D-aspartate 2B receptor protect dopaminergic neurons in animal models  
O.T.W. NG & K.K.L. YUNG
- A455** Pramipexole versus L-DOPA in an experimental model of Parkinson's disease: behavioural and electrophysiological analysis  
S. MARINUCCI, C. SGOBIO, V. BAGETTA, V. GHIGLIERI, V. PENDOLINO, P. CALABRESI & B. PICCONI
- A456** Corticostriatal long-term depression in L-DOPA-induced dyskinesia: insight into the role of the cGMP/phosphodiesterases pathway  
V. PENDOLINO, B. PICCONI, V. BAGETTA, V. GHIGLIERI, V. PAILLÉ, M. DI FILIPPO, A. TOZZI, C. GIAMPÀ, F.R. FUSCO, C. SGOBIO & P. CALABRESI
- A457** Behavioural characterization of dyskinesias induced by L-DOPA or dopamine receptor agonists in a rat model of Parkinson's disease  
H. IDERBERG, D. RYLANDER & M.A. CENCI
- A458** The role of vascular endothelial growth factor (VEGF) in L-DOPA-induced dyskinesia  
K.E. OHLIN, H.S. LINDGREN & M.A. CENCI
- A459** D1 and NMDA receptor interplay in physiological and pathological conditions: focus on Parkinson's disease  
V. BAGETTA, V. GHIGLIERI, V. PENDOLINO, C. SGOBIO, S. MARINUCCI, F. GARDONI, M. DI LUCA, C. VASTAGH, B. PICCONI & P. CALABRESI
- A460** Exercise is not beneficial and may accelerate symptom onset in a mouse model of Huntington's disease  
M. POTTER, C. YUAN, C.S. OTTENRITTER, M.R. MUGHAL & H. VAN PRAAG
- A461** Aberrant synaptic connectivity may underlie the early symptoms- the learning and memory deficits in Huntington's disease  
R.P. MURMU & J.-Y. LI
- A462** C-Jun-mediated sulfiredoxin induction by BDNF confers resistance against 3-nitropropionic acid in rat neurons: implication for Huntington's disease therapy  
D.-I. YANG & C.-L. WU
- A463** VEGF and its role in processing of amyloid precursor protein in the neuro-glia-vascular unit  
R. SCHLIEBS, S. BÜRGER, K. GÜNTER & M. BIGL
- A464** The behavioral effects of transient global ischemia on APP/PS1 mouse model of Alzheimer's disease  
S. KEMPPAINEN, E. PEKKARINEN & H. TANILA
- A465** Expression changes of stearyl-CoA desaturase isoforms in neuronal and glial responses to various kinds of brain injury  
S.-Y. SONG, C. KATO & K. NAKASHIMA
- A466** Neurodevelopmental structural changes of the central nervous system in 11 cases of Alzheimer disease  
M.F. TRISTÁN-HUNDÍS, M.C. MANZANAREZ-COLIN, S. PALACIOS-ESCALONA, D.S. TOTXO-GUERRERO, B. PERALTA-RODRÍGUEZ, N. GELISTA HERRERA, M. REYES PÉREZ, G. ALAN JUÁREZ, C. CASTAÑEDA-GONZÁLEZ, H. REZA GARDUÑO TREVIÑO & D. REMBAO-BOJÓRQUEZ
- A467** HIV/Cocaine-induced dementia: cocaine hijacks sigma-1 receptors to the lipid raft to enhance the monocyte transmigration into the brain  
T.-P. SU & S. BUCH
- A468** *Ex vivo* characterization of progranulin gene silencing in primary neuronal cultures to study the biological basis of FTLD-U  
M. ZALTIERI, L. NAVARRIA, P. SPANO & A. BELLUCCI
- A469** Pathological features of ALS/FTLD in transgenic mice produced with genomic fragments encoding wild-type or mutant forms of human TDP-43  
V. SWARUP, C. BAREIL, D. PHANEUF, J. ROBERTSON & J.-P. JULIEN
- A470** Anti-inflammatory effects of electroacupuncture in a symptomatic ALS animal model  
E.J. YANG, J.H. JIANG, S.H. KIM & S.-M. CHOI

- A471** The regulator of ubiquitin-proteasome system in an ALS model  
S. KIM, E.J. YANG & S.M. CHOI
- A472** Proteomic expression analysis of cerebrospinal fluid (CSF) in search for diagnosis biomarkers in amyotrophic lateral sclerosis (ALS)  
J. BORG, A. CAMPOS, C. DIEMA, N. OMEÑACA, E.D. OLIVEIRA, A. ZANZONI, D. ROSSELL & M. VILASECA
- A473** Monocyte chemoattractant protein-1 up modulates GABA-induced currents in cortical neurons from a murine model of amyotrophic lateral sclerosis  
S. CAIOLI, M. PIERI, A. ANTONINI, A. GUGLIELMOTTI & C. ZONA
- A474** Abnormal motor axon excitability in the transgenic SOD1<sup>G127X</sup> mouse model of amyotrophic lateral sclerosis  
M. MOLDOVAN, S. ALVAREZ, V. PINCHENKO, S. MARKLUND, K.S. GRAFFMO & C. KRARUP
- A475** Does running-based exercise affect the life span of an ALS mouse model ?  
Y.N. GERBER, J.-C. SABOURIN, J.-P. HUGNOT & F.E. PERRIN
- A476** Inefficient RNA editing of GluA2 with ADAR2 downregulation and sporadic ALS  
T. HIDEYAMA, T. YAMASHITA, H. AIZAWA & S. KWAK
- A477** Senataxin, a protein defective in ALS4 and AOA2 neurodegenerative diseases, is involved in neuritogenesis  
C. VANTAGGIATO, S. BONDIONI, G. AIROLDI, A. BOZZATO, G. BORSANI, E.I. RUGARLI, N. BRESOLIN, E.I. CLEMENTI & M.T. BASSI
- A478** Activation of extrasynaptic NR2B subunit of NMDA receptors by human monocyte-derived macrophages: implications for HIV-associated encephalopathy  
H. XIONG, J. YANG, D. HU & J. LIU
- A479** Involvement of miRNA in the pathogenesis of Spinocerebellar ataxia type 6 (SCA6)  
T. TANABE, S. HASHIMOTO, H. SAEGUSA, L. LI & S. ZONG
- A480** Kinetics alterations and reduced calcium currents at the calyx of Held in a S218L Cav 2.1 knockin migraine mouse model  
M.N. DI GUILMI, C. GONZÁLEZ INCHAUSPE, I.C. FORSYTHE, A. VAN DEN MAAGDENBERG, J.G.G. BORST & O.D. UCHITEL
- A481** Determining the roles of CBP in forebrain principal neurons  
L.M. VALOR, M. JIMENEZ-MINCHAN, R. OLIVARES, M.M. PULOPULOS, B. LUTZ & A. BARCO
- A482** Mechanistic studies in mouse models of Charcot-Marie-Tooth diseases caused by tRNA synthetase mutations  
M. STUM, K. MIERS, K. SEBURN & R. BURGESS
- A483** Increased phosphorylated  $\alpha$ -synuclein relates to its insolubility in MSA  
K.E. MURPHY, Y.-J.C. SONG, Y. HUANG, W.-P. GAI & G.M. HALLIDAY
- A484** High frequency stimulation in commissural fiber suppresses the neural activity in rat hippocampal CA3 region in vivo  
X. ZHENG, Z. FENG & D.M. DURAND
- A485** Cell-autonomous role of AFG3L2 in neurodegeneration  
E. ALMAJAN, S. SEMMLER, P. MARTINELLI, E. BARTH & E.I. RUGARLI
- A486** Characterization of TorsinA in cerebellar synaptic circuitry in a mouse model of DYT1 dystonia  
F. PUGLISI, G. PONTERIO, G. MANDOLESI & A. PISANI
- A487** Mechanisms of motoneuron death in a type II spinal muscular atrophy mouse model  
M. BOIDO, A. PIRAS, V. VALSECCHI & A. VERCELLI
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- 17. Psychiatric & behavioural disorders (Depression & bipolar disorder)**
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- A488** Correlations between brain-derived neurotrophic factor (BDNF), vascular endothelial growth factor (VEGF), and vascular risk factors in late-onset major depression  
R.B. DALBY, B. ELFVING, P.H.P. POULSEN, L. FOLDAGER, R. ROSENBERG & P. VIDEBECH
- A489** The serotonin-syndrome in mice: signs mediated by the 5-HT<sub>1A</sub>-receptor  
B. BERT, R. HABERZETTL, J. BROSDA & H. FINK
- A490** Garden rehabilitation stabilises IL-2 and INF-gamma levels but does not relieve depressive-symptoms  
C. BAY-RICHTER, L. TRÄSKMAN-BENDZ, P. GRAHN & L. BRUNDIN
- A491** Sesamol suppresses oxido-nitrosative stress-induced neuro-inflammatory cascade in experimental model of pain-depression dyad  
V. ARORA, A. KUHAD, V. TIWARI & K. CHOPRA
- A492** Activation of CaMKII and PKA by Tianeptide enhances AMPA receptor function via the p38 mapk/mek/jnk pathways  
G. JUHÁSZ, V. SZEGEDI, B. BARKÓCZI, G. KAPUS, M. SPEDDING & B. PENKE
- A493** Investigation of antidepressants activity of sound beats created with different algorithms of modulation in comparison with antidepressants in forced swim test (FST) on rats  
N.L. ISVARINA, M.V. LENSMAN, V.O. MUROVETS & A.A. SAVOXIN



## POSTER PRESENTATION

- A494** Complex regulation of the human tryptophan hydroxylase-2 (TPH2) gene transcription in immortalized raphe serotonergic neurons, RN46A cells  
Y. INOUE, Y. OKADA, T. HIROI & H. MATSUI
- A495** Effect of genetic deletion and pharmacological antagonism of P2X7 receptors in animal models of mood disorders  
F. GÖLÖNCSER, R.D. ANDÓ, Á. KITTEL, K. SOPRONI, J. HALLER, T. NÉMETH, A. MÓCSAI & B. SPERLÁGH
- A496** Calmodulin-1 gene knock down in the ventral hippocampus prevents the antidepressant like effect of chronic imipramine treatment  
F.R. FERREIRA, W.S. ARAUJO-JR. & F.S. GUIMARAES
- A497** microRNAs in depressive behavior: evidence from learned helpless model of depression  
Y. DWIVEDI & N. SMALHEISER
- A498** Environmental enrichment rescues sexually-dimorphic abnormal corticosterone response in the R6/1 mouse model of Huntington's disease  
X. DU, T. RENOIR, T.Y. PANG & A.J. HANNAN
- A499** Early treatment with ethosuximide prevents neurochemical abnormalities in the brain and depression-like behavioral consequences of genetic absence epilepsy  
K.Y. SARKISOVA, M.A. KULIKOV, V.S. KUDRIN, A.A. FOLOMKINA & A.S. BAZYAN
- A500** Stress-induced increase of anti-apoptotic protein, Bcl-xl, gene expression in the brainstem of fluoxetine-treated rats correlates with monoamine metabolism  
G.T. SHISHKINA, T.S. KALININA, I.V. BEREZOVA & N.N. DY GALO
- A501** Anti-immobility effect of the combined treatment with antidepressant drugs and memantine in the forced swim test in mice. The role of sigma( $\sigma$ )<sub>1</sub> receptors  
G. SKUZA, W. SADAJ & M. KABZINSKI
- A502** Right-pawed but not left-pawed male Wistar rats are protected against behavioral despair manipulation  
E. SOYMAN, E. LACIN, E. TUNCKOL & R. CANBEYLI
- A503** Olfactory bulbectomy and zinc deficiency influences BDNF expression in the rat and mouse brain cortex  
B. SZEWCZYK, M. SOWA KUCMA, K. MLYNIEC & G. NOWAK
- A504** Depressive-like profile induced by MCH microinjections into the dorsal raphe nucleus evaluated in the forced swim test  
J. URBANAVICIUS, P. LAGOS, C. SCORZA, R. MIRABALLES & P. TORTEROLO
- A505** Testosterone shows antidepressant efficacy in a vulnerable population submitted to chronic variable stress  
S.R. WAINWRIGHT, J.L. WORKMAN & L.A.M. GALEA
- A506** Neural circuit mechanisms of behavioral susceptibility and resilience to social defeat  
J.J. WALSH, A.K. FRIEDMAN, M.K. LOBO, D. CHADHURY, B. JUAREZ, V. GRADINARU, K. DEISSEROTH, E. NESTLER & M.-H. HAN
- A507** Antidepressant effects in the forced swim test (FST): involvement of bed nucleus of the stria terminalis (BNST)  
S. YANAGIDA, K. MOTOMURA, A. OOHASHI, M. HAYASHI & S. KANBA
- A508** The effect of *Mycobacterium avium* chronic infection on depressive-like behavior is dependent on the mouse genetic background  
S. ROQUE, B. RODRIGUES, S. MONTEIRO, C. BRANCO, C. NOBREGA, N. SOUSA, J.A. PALHA & M. CORREIA-NEVES
- A509** The effect of repeated co-treatment with an antidepressant drugs and a low dose of risperidone on behavioral reactivity of the central serotonergic, adrenergic and dopaminergic systems in mice  
Z. ROGÓZ, M. KABZINSKI & W. SADAJ
- A510** Folic acid prevents the depressive-like behavior elicited by the pro-inflammatory cytokine TNF- $\alpha$  in the mouse tail suspension test  
J. BUDNI, M. MORETTI, A.E. FREITAS, V.B. NEIS, C.M. RIBEIRO, G.O. BALEN & A.L.S. RODRIGUES
- A511** Intact histamine transmission is required for selective serotonin reuptake inhibitors (SSRIs) to produce their effect in the tail suspension test  
L. MUNARI, G. PROVENSANI, M.B. PASSANI, N. GALEOTTI, H. OHTSU & P. BLANDINA
- A512** Gene expression profile of dermal fibroblast from depressed patients  
C. MORA, A. BARBON, A. CATTANEO, E. MILANESI, A. BOZZATO, M. GENNARELLI & S. BARLATI
- A513** Dose-dependent effects of interferon-alpha on anxiety, depressive-like behavior and the brain monoamines level in rats kept in standard or overcrowded conditions  
N.A. LOGINOVA, E.V. LOSEVA, K.Y. SARKISOVA & V.S. KUDRIN
- A514** Short-term effects of central antidepressant treatment on exploratory behavior and hippocampal neurogenesis in adult mice  
M. PODOLAN, J. DOS SANTOS, T. WALBER, F. POSSAMAI, F. MELLEU, V. DE SOUZA, T.S. DOS SANTOS, C. CENTURION-WENNINGER, J. MARINO-NETO & C. LINO DE OLIVEIRA

- A515** Ethological and neuropharmacological assessments of acupuncture effect on murine depression-like behavior aggravated by *Bacillus Calmette-Guérin* inoculation  
S. KWON, B. LEE, B.-J. SUR, M. KIM, H. LEE & D.-H. HAHM
- A516** Chronic fluoxetine treatment differently affect male and female mice behavior in forced swim test  
J. KERCMAR, S.A. TOBET & G. MAJDIC
- A517** Generation and characterization of drug-inducible forebrain-specific mice mutant for both glycogen synthase kinase-3 alpha and beta genes  
O. K Aidanovich-Beilin & J.R. WOODGETT
- A518** Loss of motivation for cognitive learning induced by in vivo delivery of antibody against AMPA receptor GluR1 C-terminus into hippocampal neurons via HVJ-E vector  
M. SAJI, K. NODA, M. OGATA, N. SUZUKI & H. AKITA
- A519** Anti-depressant effects of *Paecilomyces japonica* on repeated restraint stress-induced behavioral responses in ovariectomized female rats  
M.S. YE, H.J. PARK, H.S. SHIM, Y.H. AHN, D.-H. HAHM, H. LEE & I. SHIM
- A520** Dexmedetomidine reduces lipopolysaccharide induced neuroinflammation, sickness behavior, and anhedonia  
C.-H. HSING, T.-S. WEI, W. CHOU, J.-J. WANG & C.-H. YEH
- A521** Adult neurogenesis in a mouse model of affective behavior: pharmacological and non-pharmacological interventions  
A. SAH, P. MARKT, S. SOTNIKOV, C. KOEHL, R. LANDGRAF & N. SINGEWALD
- A522** Mood stabilizer lithium inhibits amphetamine-induced 4-HNE-VMAT2 and 4-HNE-SNAP25 adducts in rat frontal cortex  
J.-F. WANG, H. TAN, L. SHAO, V. TANG & W.G. HONER
- A523** Chronic N-methyl D-aspartate administration induces „mania-like“ behavioral changes in rats  
A.Y. TAHA, H.-W. KIM, A. HAMIDI, T. TRAGON, E. RAMADAN, G. CHEN, S.I. RAPOPORT & J.S. RAO
- A524** Lithium exerts anti-anhedonic activity in two models of anhedonia in rats  
M.E. SECCI, G. MARCHESE, S. SCHEGGI, C. GAMBARANA & M.G. DE MONTIS
- A525** Increased mitochondria 3-nitrotyrosine levels in postmortem prefrontal cortex of subjects with bipolar disorder and schizophrenia  
A.C. ANDREAZZA, J.F. WANG & L.T. YOUNG
- A526** Lithium and tamoxifen modulates GSK-3B changes in striatum of rats induced by d- amphetamine in an animal model of mania  
J. QUEVEDO, S.S. VALVASSORI, K.C. CECHINEL, R.B. VARELA, J. LOPES- BORGES, G. DA LUZ, M.F. VITTO & C.T. DE SOUZA
- A527** Dopamine/glycogen synthase kinase 3β interactions and lithium  
R. MCQUADE
- A528** Histochemical detection of neurons accumulating mitochondrial DNA deletions in mice with mutant *Polg1* gene  
M. KUBOTA-SAKASHITA, T. KASAHARA, F. ISONO, A. TAKATA & T. KATO
- A529** Forced desynchronization as a behavioral model to bipolar disorder  
B.D.V. KOIKE, M. RIBEIRO, B.S.B. GONÇALVES & J.F. ARAUJO
- A530** Induction of neurons for superficial cortical layers from mouse embryonic stem cells by valproic acid  
B. JULIANDI, M. ABEMATSU, T. SANOSAKA & K. NAKASHIMA
- A531** Effects of acupuncture on dopaminergic transmission in a mouse model of Parkinson's disease  
H. BAE, S.-N. KIM, A.-R. DOO, J.-Y. PARK, W. MOON, Y. CHAE, H. LEE & H.-J. PARK
- A532** Acupuncture induced dopaminergic neuron survival and motor function improvement via PI3K/Akt signaling pathway in a mouse model of Parkinson's disease  
S.-R. MIN, S.-N. KIM, A.-R. DOO, J.-Y. PARK, W. MOON, Y. CHAE, H. LEE & H.-J. PARK
- 
- 20. History, teaching, neuroethics, awareness & social impact**
- H001** Scientists and the unification of Italy  
M. BENTIVOGLIO & M.C. STEFANINI
- H002** Using impulse reviewer training sites to engage students in basic research  
K.B. DAVISON, M. BARKHUIZEN, K. CRISP, K. CRONISE, S. SMITH, S.M. SWEITZER, S. SYMINGTON, V. TURGEON & L.S. JONES
- H003** Neuroscience and teacher training: a dialogue needed  
F.A.H. DE CARVALHO, A.M. MAIATO & D.M. BARROS
- H004** IBRO inter-regional activities initiative  
K.A. KORALEK, R. ROCKSTAD-REX & M. DI LUCA
- H005** The international neurobioetica multidisciplinary study and research group: report of meetings, seminars and future work  
A. GINI, A. GARCIA & R. PASCUAL
- H006** Neurology training in Ethiopia: past, present and future  
J. GEMECHU, G. ZENEBE, M. ZEBENIGUS & Y. WOLDEAMANUEL
- H007** Teaching tools in Africa  
S. JULIANO



- H008 Milestones in neuroscience of epilepsy partialis continua**  
Y. LEKOMTSEVA
- H009 An epistemological investigation within the neurosciences: the utility of the comparison with some psychotherapeutic models**  
M.A. MANGIONE
- H010 Ethical intelligence and education for culture of peace: the neuro-physiological dynamics in a sustainable way**  
R.D.F. MIGLIORI
- H011 Objective-based learning and integrated approach to assessment of neuroscience practical instruction for medical students**  
A.B. ODUTOLA
- H012 The evaluation of the Croatian version of the Epworth sleepiness Scale and STOP questionnaire as screening tools for obstructive sleep apnea syndrome**  
R. PECOTIC, I. PAVLINAC, M. VALIC, N. IVKOVIC & Z. DOGAS
- H013 The prefix 'Neuro' in terms like neuromarketing, neuroeconomics: truly transdisciplinary approaches or just catchy hyped up syllables?**  
S. PRABHU, H. MISRA, B. AUGIER & A. SHERDIL
- H014 Five years after: reviewing progress and forthcoming challenges of a novel Canadian neuroethics research program**  
E. RACINE & E. BELL
- H015 The mystical dimensions of neuroethics**  
M. RAZA
- H016 Education on drug abuse to children and adolescents from poor and violent urban communities**  
M. ROCHA
- H017 The research nursery "neuroplasticity"**  
L. FRANCIS, M. AVILA, A.M. SABOGAL GUAQUETA, E. MAYORGA, D. NAVARRO, A. BONILLA, N. BONILLA, L. DE LOS REYES, L. TRUJILLO, M. HERNANDEZ, J. SALGUERO, A. ROJAS, J. DIAZ, J. MONROY, L. ROJAS, C. MURCIA, U. FLOREZ & A. BENITEZ
- H018 Awareness and social impact of neuroscience education in India: a students' perspective**  
J.K. SINHA & S. GHOSH
- H019 Neuroethics in a deontological and utilitarian context. An ERP analysis on the "emotional effect"**  
A. TERENCE & M. BALCONI
- H020 From Kinshasa to Kigali, from Qindao to Manasar: the IBRO initiative in encouraging young neuroscientists around the world**  
S. SARA, K.M. MOREIRA & R. AKINYEMI

**Scientific Program**  
**Saturday July 16**



**08:30-09:30 PLENARY LECTURE PL4**

Introduced by: **Yukiko Goda** (London, UK)

Local control of synaptic function

**Erin M. Schuman** (Frankfurt, Germany)

**09:40-11:40 SYMPOSIUM S06**

**PUTTING DENDRITES BACK INTO THE BRAIN: NEW APPROACHES FOR STUDYING DENDRITIC FUNCTION IN VIVO**

Chaired by: **Greg Stuart** (Canberra, Australia)

S06.1 - 09:40

Synaptic activation of dendrites and spines in sensory cortex neurons in vivo

**Arthur Konnerth** (Munich, Germany)

S06.2 - 10:10

Two-photon imaging of Purkinje cell dendritic activity in vivo

**Kazuo Kitamura** (Tokyo, Japan)

S06.3 - 10:40

Exploring dendritic activity in vivo from different angles - what do we learn about cortical networks

**Matthew Larkum** (Bern, Switzerland)

S06.4 - 11:10

Dendritic synaptic integration in mouse visual cortex in vivo

**Michael Hausser** (London, UK)

**09:40-11:40 SYMPOSIUM S07**

**SIGNAL TRANSDUCTION AND CELL BIOLOGY OF GROWTH CONE GUIDANCE**

Chaired by: **Yimin Zou** (La Jolla, USA)

S07.1 - 09:40

Cell polarity signaling and growth cone guidance

**Yimin Zou** (La Jolla, USA)

S07.2 - 10:10

ADF/Cofilin-mediated actin turnover directs neuritogenesis in the developing mammalian brain

**Frank Bradke** (Martinsried, Germany)

S07.3 - 10:40

Membrane dynamics in growth cone guidance

**Hiroyuki Kamiguchi** (Wako, Japan)

S07.4 - 11:10

Molecular mechanisms of axon branching and its role in neural circuit formation

**Dietmar Schmucker** (Leuven, Belgium)

**09:40-11:40 SYMPOSIUM S08**

**SUBCELLULAR LOCALIZATION AND FUNCTION OF VOLTAGE-GATED ION CHANNELS**

Chaired by: **Matthew Nolan** (Edinburgh, UK)

**Auditorium Verdi**

S08.1 - 09:40

Polarized subcellular distribution of voltage-gated Na<sup>+</sup> and K<sup>+</sup> channels in the central nervous system

**Andrea Lorincz** (Budapest, Hungary)

S08.2 - 10:10

Compartmentalized processing and storage in pyramidal neurons

**Judit Makara** (Ashburn, USA)

S08.3 - 10:40

HCN channel regulation of cortical glutamatergic synaptic transmission

**Mala Shah** (London, UK)

S08.4 - 11:10

Kv1.1 in neuronal excitability and synaptic transmission: insights from channelopathies

**Dimitri Kullmann** (London, UK)

**09:40-11:40 SYMPOSIUM S09**

**PRION BIOLOGY AND PATHOLOGY**

Chaired by: **Rafael Linden** (Rio de Janeiro, Brazil)

S09.1 - 09:40

Reggie/flotillin and prion protein in axon growth and adherens junction formation

**Claudia Stuermer** (Konstanz, Germany)

S09.2 - 10:10

Interaction of mammalian prion proteins with nucleic acids and glycosaminoglycans

**Jerson Silva** (Rio de Janeiro, Brazil)

S09.3 - 10:40

The role of the N-terminal region of prion protein in prion disease

**Suehiro Sakaguchi** (Tokushima, Japan)

S09.4 - 11:10

The role of neuroinflammation in the pathogenesis of prion disease

**Hugh Perry** (Southampton, UK)

**09:40-11:40 SYMPOSIUM S10**

**THE ENDOGENOUS OPIOID SYSTEMS IN PSYCHIATRIC AND NEUROLOGICAL DISEASES**

Chaired by: **Brigitte Kieffer** (Illkirch, France)

S10.1 - 09:40

Mu and delta opioid receptors: opposing roles

**Brigitte Kieffer** (Illkirch, France)

S10.2 - 10:10

Opioids and the coordination of stress response

**Andreas Zimmer** (Bonn, Germany)

S10.3 - 10:40

A role for p38 MAPK in kappa opioid receptor-dependent dysphoria

**Michael Bruchas** (St. Louis, USA)

S10.4 - 11:10

The dynorphin/KOP system in temporal lobe epilepsy

**Christoph Schwarzer** (Innsbruck, Austria)

**Auditorium Verdi**

**Room Mazzini**

**Room Cavour**

**Room Vittorio Emanuele II**

**Room Garibaldi**



## 11:40-14:15 POSTER SESSION B (see detail page 77)

Poster Area

Posters should be placed on the boards from 9:30 on each day and removed by 17:30. No responsibility will be taken for posters which are left behind. **Posters will be attended by the Presenting Author from 11:40 to 14:15 on each day.**

The poster boards are numbered and adhesive material will be available at each board (please do not use drawing pins or thumbtacks). **The number of the abstract corresponds to the number of the poster panel.**

The Posters for **Topic 20 (History, teaching, neuroethics, awareness & social impact)** will be on display for the entire period of the congress (from Friday, July 15 to Monday, July 18) and will be attended by the Presenting Author from 11:40 to 14:15 on the first day, Friday, July 15.

**Italian Society of Neuroscience (Young Investigator Visiting Programme) Poster Prize:** The best posters by participants from low-income countries will be selected each day by a Selection Committee and awarded at the late afternoon Plenary Lecture at 17:30 of each day.

01. Nervous system development & developmental disorders (Developmental disorders)
02. Axonal guidance, synaptic formation & trophic factors (Axonal guidance)
04. Stem cells: neural injury & repair (Stem cells)
06. Excitable membranes & ion channels (Physiology)
07. Synaptic transmission & signal transduction (Trafficking & signalling)
08. Neural plasticity (Signalling & synaptic plasticity II)
11. Sensory systems (Auditory systems & sleep)
12. Motor systems (Mechanisms)
13. Learning & memory (Physiology & clinical aspects)
15. Neurodegeneration & aging (Oxidative stress, inflammation & other disorders)
16. Neurological disorders (Epilepsy)
17. Psychiatric & behavioural disorders (Schizophrenia, psychostimulants & drugs of abuse)
18. Neuroinformatics & computational neuroscience
19. Neuroelectronics & neurorobotic interfaces
20. History, teaching, neuroethics, awareness & social impact

## 12:30-14:00 SPECIAL EVENT SE04

Room Mazzini

### IBRO SYMPOSIUM: CONTRIBUTION OF IBRO TO WORLD NEUROSCIENCE

Chaired by: **Masao Ito** (Wako, Japan) and **Gordon M. Shepherd** (New Haven, USA)

### INTRODUCTORY OVERVIEWS

The origins of IBRO  
**Masao Ito** (Wako, Japan)

Worldwide brain research in the last 50 years  
**Gordon M. Shepherd** (New Haven, USA)

### NEUROSCIENCE IN THE IBRO REGIONS

Participants: **Rajesh Kalaria** (Africa), **Hitoshi Okamoto** (Asia and the Pacific), **Omar Macadar** (Latin America), **Gordon Shepherd** (Northern America), **Tamas Freund** (Western and Eastern Europe).

## CONCLUDING REMARKS

**Torsten Wiesel** (New York, USA)

This symposium will briefly summarize the rise of neuroscience in the past 50 years, and highlight the unique role played by IBRO in supporting that rise at an international level

## 12:30-14:00 SPECIAL EVENT SE05

Room Cavour

### FINE-SCALE MAPPING OF THE DEVELOPING MOUSE AND HUMAN BRAIN

Chaired by: **John Hohmann** (Seattle, USA)

SE05.1 - 12:35

A new approach to mammalian brain ontologies based on ontogeny  
**Luis Puelles** (Murcia, Spain)

SE05.2 - 12:55

Spatial mapping of gene expression in developing mouse brain  
**Salvador Martinez** (Alicante, Spain)

SE05.3 - 13:15

High resolution reference atlases in human brain  
**Allan Jones** (Seattle, USA)

SE05.4 - 13:35

Mapping of gene expression across human development  
**John Hohmann** (Seattle, USA)

## 12:30-14:00 SPECIAL EVENT SE06

Room Vittorio Emanuele II

### JOINT MEETING BETWEEN THE FRENCH AND ITALIAN NEUROSCIENCE SOCIETIES

### SDN-SINS MINISYMPOSIUM 2

#### NEW INSIGHTS INTO GEPHYRIN FUNCTION

Chaired by: **Antoine Triller** (Paris, France) and **Enrico Cherubini** (Trieste, Italy)

SE06.1 - 12:35

Regulation of inhibitory receptors interactions with gephyrin: Real time dynamics at single molecular level  
**Antoine Triller** (Paris, France)

SE06.2 - 12:55

At inhibitory synapses iLTP is associated with gephyrin-induced down-regulation of GABA<sub>A</sub> receptors mobility  
**Andrea Barberis** (Genoa, Italy)

SE06.3 - 13:15

At GABAergic synapses gephyrin regulates transynaptic signalling  
**Enrico Cherubini** (Trieste, Italy)

SE06.4 - 13:35

Targeting spinal GABAergic and glycinergic inhibition to develop novel analgesics  
**Pierriek Poisbeau** (Strasbourg, France)

## 14:15-15:45 WORKSHOP W11

Room Vittorio Emanuele II

### STEM CELLS FOR THE TREATMENT OF SPINAL CORD INJURY: ARE WE THERE YET?

Chaired by: **Eva Sykova** (Prague, Czech Republic)



W11.1 - 14:20  
Stem cells and biomaterials for the treatment of spinal cord injury  
**Eva Sykova** (Prague, Czech Republic)

W11.2 - 14:40  
Use of neural stem cells for repair of the injured spinal cord  
**Michael G. Fehlings** (Toronto, Canada)

W11.3 - 15:00  
Transplantation of human bone marrow-derived cells induces axonal sprouting and improves functional outcome after axonal damage to the spinal cord  
**Jeffery D. Kocsis** (New Haven, USA)

W11.4 - 15:20  
Cell integration and axon growth in the spinal cord  
**James W. Fawcett** (Cambridge, UK)

**14:15-15:45 WORKSHOP W12** Room Mazzini  
**THE DIVERSE ACTIONS OF ESTROGENS IN HOMEOSTATIC REGULATION**  
Chaired by: **Shaila Mani** (Houston, USA)

W12.1 - 14:20  
Estrogen receptor beta regulation of stress responses  
**Robert Handa** (Phoenix, USA)

W12.2 - 14:40  
Estrogens and neuroprotection mechanisms in cholinergic neurons  
**Istvan Abraham** (Dunedin, New Zealand)

W12.3 - 15:00  
Estrogen regulation of hippocampal synaptogenesis  
**Gabriele Rune** (Hamburg, Germany)

W12.4 - 15:20  
Novel actions of estrogen receptors in nociception  
**Paul Micevych** (Los Angeles, USA)

**14:15-15:45 WORKSHOP W13** Room Cavour  
**ODORANTS, RECEPTORS AND GLOMERULI**  
Chaired by: **Peter Mombaerts** (Frankfurt, Germany)

W13.1 - 14:20  
Phragrance and pharmacology: a functional approach to mammalian odorant receptors  
**Stuart Firestein** (New York, USA)

W13.2 - 14:40  
Olfactory transduction in the mouse: amplification by calcium-activated chloride channels  
**Anna Menini** (Trieste, Italy)

W13.3 - 15:00  
Protomaps in the development of the mouse olfactory system  
**Charles Greer** (New Haven, USA)

W13.4 - 15:20  
Olfaction targeted  
**Peter Mombaerts** (Frankfurt, Germany)

**14:15-15:45 WORKSHOP W14** Room Garibaldi  
**STRUCTURAL PLASTICITY AND MEMORY**  
Chaired by: **Paul Frankland** (Toronto, Canada)

W14.1 - 14:20  
Neocortical rewiring and memory storage  
**Gerald Finnerty** (London, UK)

W14.2 - 14:40  
Structural plasticity of the long-term consolidation of memories in the cortex  
**Paul Frankland** (Toronto, Canada)

W14.3 - 15:00  
Bidirectional remodeling of hippocampal and cortical circuits during extinction of remote conditioned fear  
**Martine Ammassari-Teule** (Rome, Italy)

W14.4 - 15:20  
Integration of adult born hippocampal neurons into behaviorally relevant networks and their role in information processing  
**Victor Ramirez-Amaya** (Mexico City, Mexico)

**14:15-15:45 WORKSHOP W15** Auditorium Verdi  
**TRANSCRIPTOMIC AND GENE EXPRESSION APPROACHES TO NEUROLOGICAL DISORDERS**  
Chaired by: **Yuri Bozzi** (Trento, Italy)

W15.1 - 14:20  
Gene expression profiling of forebrain areas in a mouse model of autism  
**Yuri Bozzi** (Trento, Italy)

W15.2 - 14:40  
mRNA and miRNA transcriptomes of epileptic tolerance  
**David Henshall** (Dublin, Ireland)

W15.3 - 15:00  
Transcriptome analysis of dopaminergic cells: implications for Parkinson's disease  
**Stefano Gustincich** (Trieste, Italy)

W15.4 - 15:20  
In-situ hybridization profiling of gene expression changes in the prefrontal cortex of Schizophrenic patients  
**John Hohmann** (Seattle, USA)

**15:50-17:20 WORKSHOP W16** Room Vittorio Emanuele II  
**ENGINEERING RECEPTORS TO INVESTIGATE THE IN VIVO CELL SIGNALING CASCADES THAT UNDERLIE PHYSIOLOGY, BEHAVIOUR, AND NEUROLOGICAL DISORDERS**  
Chaired by: **John Neumaier** (Seattle, USA)

W16.1 - 15:55

Probing striatal function using pathway-selective viral vectors and engineered receptors

**John Neumaier** (Seattle, USA)

W16.2 - 16:15

Control of Gi/o signaling and neuronal activity by light to modulate spinal cord and motor function

**Stefan Herlitze** (Bochum, Germany)

W16.3 - 16:35

Activation of astrocytic GPCRs in vivo leads to a striking behavioral phenotype

**Ken McCarthy** (Chapel Hill, USA)

W16.4 - 16:55

5-HT<sub>4</sub> RASSL and neurodegenerative diseases

**Joel Bockaert** (Montpellier, France)

#### 15:50-17:20 WORKSHOP W17

Room Mazzini

#### NICOTINIC MECHANISMS UNDERLYING REWARD, EMOTION AND COGNITION

Chaired by: **Sigismund Huck** (Vienna, Austria)

W17.1 - 15:55

Nicotinic receptors and attention performance: focus on receptor desensitization

**Huibert D. Mansvelder** (Amsterdam, The Netherlands)

W17.2 - 16:15

Endogenous cholinergic inputs and the modulation of cortico-amygdala transmission

**Lorna W. Role** (Stony Brook, USA)

W17.3 - 16:35

Alpha 5 nicotinic receptors and the mechanisms of drug withdrawal

**Mariella De Biasi** (Houston, USA)

W17.4 - 16:55

Nicotinic receptors and synaptic plasticity in the meso-accumbens dopamine system

**Daniel S. McGehee** (Chicago, USA)

#### 15:50-17:20 WORKSHOP W18

Room Cavour

#### PHYSIOLOGICAL ROLES AND ANTIPARKINSONIAN POTENTIAL OF METABOTROPIC GLUTAMATE RECEPTORS IN THE BASAL GANGLIA MOTOR CIRCUIT

Chaired by: **P. Jeffrey Conn** (Nashville, USA)

W18.1 - 15:55

Physiological roles and antiparkinsonian potential of mGluRs in the basal ganglia motor circuit

**P. Jeffrey Conn** (Nashville, USA)

W18.2 - 16:15

Role of metabotropic glutamate receptors in Parkinsonian motor impairment in the rat

**Marianne Amalric** (Marseille, France)

W18.3 - 16:35

Neuroprotective role of metabotropic glutamate receptors in experimental parkinsonism

**Giuseppe Battaglia** (Pozzilli, Italy)

W18.4 - 16:55

Group I and group III mGluRs: potential targets for antiparkinsonian and neuroprotective therapies in MPTP-treated monkeys

**Yoland Smith** (Atlanta, USA)

#### 15:50-17:20 WORKSHOP W19

Auditorium Verdi

#### STRESS-INDUCED CHANGES IN CORTICO-LIMBIC STRUCTURES

Chaired by: **Mouna Maroun** (Haifa, Israel)

W19.1 - 15:55

Effects of stress on neuronal structure and function in medial prefrontal cortex

**Cara Wellman** (Bloomington, USA)

W19.2 - 16:15

Interactions between the amygdala and the prefrontal cortex under stressful conditions

**Mouna Maroun** (Haifa, Israel)

W19.3 - 16:35

Synaptic changes in prefronto-limbic circuits induced by neonatal adverse socio-emotional experience

**Katharina Braun** (Magdeburg, Germany)

W19.4 - 16:55

Impact of stress and ageing on hippocampal corticosterone and memory retrieval in mice

**Daniel Beracochea** (Talence, France)

#### 15:50-17:20 WORKSHOP W20

Room Garibaldi

#### COMMUNICATING NEUROSCIENCE TO THE PUBLIC

Chaired by: **Colin Blakemore** (Oxford, UK)

W20.1 - 15:55

No time to be ethical?

**Julie Robillard** (Vancouver, Canada)

W20.2 - 16:15

What matters in developing countries

**Rajesh Kalaria** (Newcastle, UK)

W20.3 - 16:35

What matters in Europe

**Piergiorgio Strata** (Turin, Italy)

W20.4 - 16:55

Brain research in the media

**Elaine Snell** (London, UK)



**17:30-18:30 PLENARY LECTURE PL5**

**Auditorium Verdi**

Introduced by: **Catherine Bushnell** (Montreal, Canada)

The neurobiology of pain and its control

**Allan I. Basbaum** (San Francisco, USA)

**18:40-19:40 SPECIAL WORKSHOP SW05**

**Room Cavour**

**NEUROSCIENCE IN AFRICA: A SAMPLE FROM NORTH, SOUTH, EAST AND WEST AFRICA**

Chaired by: **Abdul H. Mohammed** (Stockholm, Sweden)

SW05.1 - 18:40

Unraveling the relationship between arousal and energy: a study of bipolar disorder

**Fleur Howells** (Cape Town, South Africa)

SW05.2 - 18:55

Lead toxicity, basal ganglia and circadian rhythms

**Mariam Sabbar** (Rabat, Morocco)

SW05.3 - 19:10

Prevalence and clinical description of epilepsy in a rural community in Uganda

**Angelina Kakooza-Mwesige** (Kampala, Uganda)

SW05.4 - 19:25

Predictive factors of dependence after stroke

**Marieme Soda Diop Sene** (Dakar, Senegal)

**18:40-19:40 SPECIAL WORKSHOP SW06**

**Room Mazzini**

**EVENING DISCUSSION WITH PLENARY SPEAKERS II: HOW TO START YOUR OWN LAB**

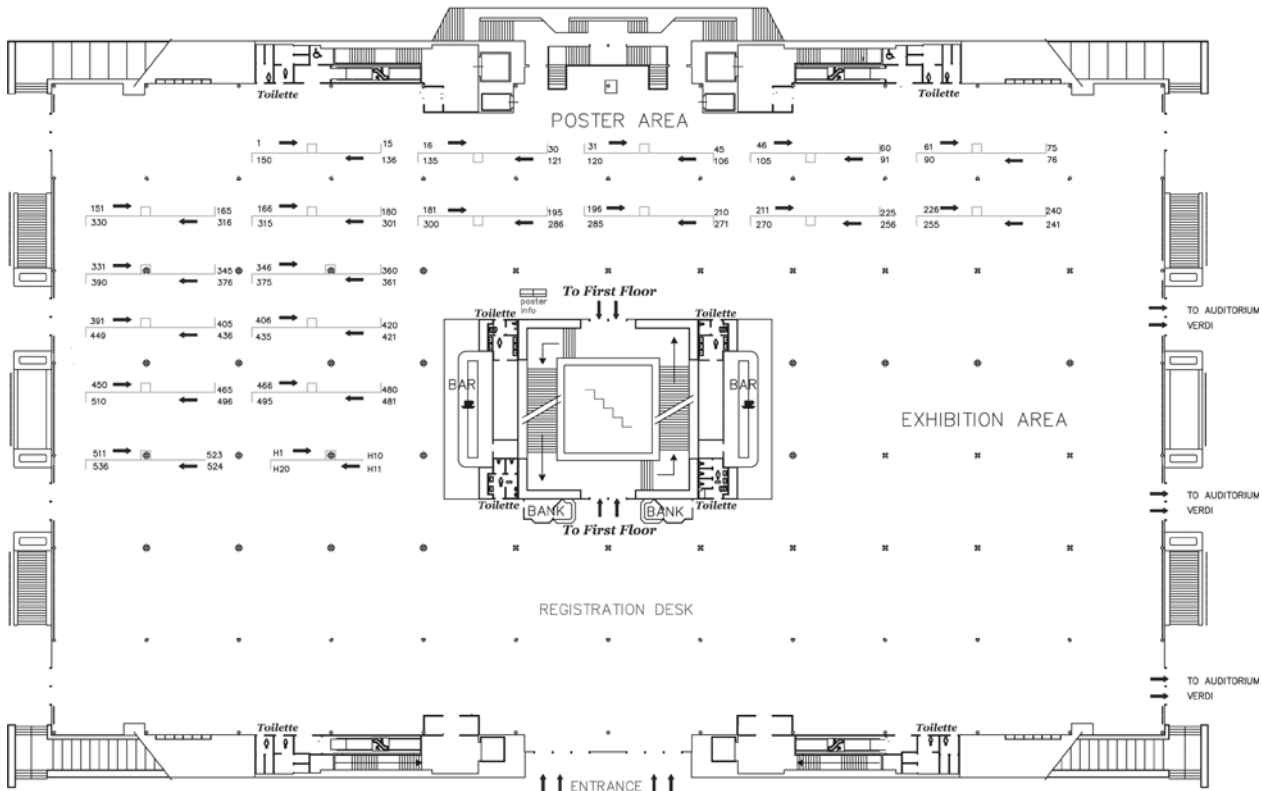
Chaired by: **Michael J. Zigmond** (Pittsburgh, USA) and **Beth A. Fischer** (Pittsburgh, USA)

Participants will include **Joshua R. Sanes** (Boston, USA)

We will consider some of the issues involved in starting a lab as a new junior investigator, including the relative merits of bringing in undergraduates, graduate students, postdocs, and research assistants into your lab; how quickly to grow; the distinction among supervision, advising, and mentoring; and the strengths and weaknesses of collaborations for junior investigators. Trainees and mentors are invited to join in the discussion.

## POSTER PRESENTATION

### Pavilion A - Ground Floor - Poster Area



#### 01. Nervous system development & developmental disorders (Migration, differentiation & plasticity)

**B001** Resveratrol prevents alcohol-induced cognitive deficits and brain damage by blocking inflammatory signaling and cell death cascade in neonatal rat brain  
V. TIWARI & K. CHOPRA

**B002** Changes in GABA<sub>A</sub> receptor expressions and brain cytoskeleton in normally grown (NG) and intrauterine growth restricted (IUGR) piglet across the perinatal period  
V.P. KALANJATI, P.B. COLDITZ & S.T. BJORKMAN

**B003** Influence of lipopolysaccharide injected to pregnant mice on behavior and brain glucocorticoid receptors of the adult offspring  
N. CHLODZINSKA, M. GAJERSKA, K. BARTKOWSKA, K. TURLEJSKI & R.L. DJAVADIAN

**B004** Altered organization of GABAergic cortical interneurons in MECP2 mouse mutants  
N. MORELLO, E. CALCAGNO, G. SRUBEK TOMASSY, E.M. BOGGIO & M. GIUSTETTO

**B005** Crude ethanol root bark and leaf extract of rauwolfia vomitoria (apocynaceae) induces reactive astrocytes in cerebral cortex of albino Wistar rat foetuses  
T. EKANEM, M. ELUWA, P. UDOH, A. AKPANTAH, O. ASUQUO, M. EKONG & A. EKEOMA

**B006** Caffeine causes neuroprotection after hypoxic-ischemic (HI) brain injury in neonatal mice  
V. URMALIYA, M. WINERDAL, U. ÁDÉN & B.B. FREDHOLM

**B007** Functional analysis of neuroligin-2 mutations linked to schizophrenia  
G. CHEN, C. SUN, M.-C. CHENG, R. QIN & C.-H. CHEN

**B008** Alterations in nitric oxide synthase (NOS) expressing neurons in cerebral cortex of rats prenatally exposed to chlorpyrifos  
J. VATANPARAST, M. NASEH & G. HAMIDI

**B009** Effect of prenatal methamphetamine exposure on spatial memory and protein expression of NMDA receptor in adult rat  
M. VRAJOVÁ, B. SCHUTOVÁ, V. BUBENÍKOVÁ-VALEŠOVÁ & R. ŠLAMBEROVÁ

**B010** Differentiated Rett syndrome mouse induced pluripotent stem cells reveal novel neurophysiological phenotypes  
N. FARRA, W.-B. ZHANG, A.P. WONG, P. PASCERI, J.H. EUBANKS, M.W. SALTER & J. ELLIS



## POSTER PRESENTATION

- B011** **Deficits in inhibitory neurotransmission of the developing amygdala in the fragile X syndrome mouse model**  
S. KRATOVAC, R.L. VISLAY-MELTZER, J.L. OLMOS-SERRANO, S.M. PALUSZKIEWICZ, B.S. MARTIN, M.M. HUNTSMAN & J.G. CORBIN
- B012** **Proteomic identification of co-factors for the Rett syndrome responsible gene product, MeCP2**  
K. TSUJIMURA, Y. FUKAO, M. FUJIWARA & K. NAKASHIMA
- B013** **Ultrastructural changes in rat cortical neurons exposed to ethanol**  
T. GUADAGNOLI, M.P. ARONNE, L.M. LÓPEZ, M.M. GIRONACCI & H.A. BRUSCO
- B014** **Consequences of an early neurotropic enterovirus infection on CNS development and memory function in the surviving host**  
D.A. VAN DEREN, JR., J.M. TABOR-GODWIN, N. KHA, S. MACIEJEWSKI, C.M. RULLER, S. GLUHM, S.M. ROBINSON, N. AN, N.U. GUDE, M.A. SUSSMAN, L. WHITTON, P.E. GILBERT & R. FEUER
- B015** **Quantitative and qualitative changes of *Pafah1b* complex subunits during mouse brain development**  
T. ESCÁMEZ, O. BAHAMONDE, R. TABARES-SEISDEDOS, S. MARTÍNEZ & D. ECHEVARRIA
- B016** **Pharmacotherapy with fluoxetine rescues dendritic hypotrophy in the Ts65Dn mouse model for DS**  
S. GUIDI, E. STAGNI, E. RAGAZZI, P. BIANCHI, E. CIANI & R. BARTESAGHI
- B017** **Developmental exposure to diazinon impairs novel object recognition in later life in a mouse model**  
T.-T. WIN-SHWE & H. FUJIMAKI
- B018** **Generalized impairment of cell proliferation in peripheral tissues of the Ts65Dn mouse model for DS**  
C. FUCHS, S. TRAZZI, S. GUIDI, E. CIANI & R. BARTESAGHI
- B019** **Neuroprotective effects of uridine in a rat model of neonatal hypoxic-ischemic encephalopathy**  
T. ALKAN, Z. MINBAY, M. CETINKAYA, B. GOREN, E. ORENLILI, N. KOKSAL & M. CANSEV
- B020** **The spontaneously hypertensive rat model for attention deficit/hyperactivity disorder may have delayed DAT function that activates at higher dopamine concentrations**  
J.H. HSIEH, G. GERHARDT & V.A. RUSSELL
- B021** **Epigenetic changes and protein homocysteinylation lead to impaired development and plasticity of neuroprogenitors under folate deficiency**  
N. AKCHICHE, N. MARTIN, J.-L. GUÉANT, R. KEREK, G. POURIÉ, V. KOZIEL, D. HELLE, J.-M. ALBERTO, S. ORTIOU, J.-L. DAVAL & C. BOSSENMEYER-POURIÉ
- B022** **Early prenatal LPS exposure reduces striatum tyrosine hydroxylase levels, motor behavior and IL-1 beta levels of male rats**  
T.B. KIRSTEN, G.P. CHAVES, A. ZAGER, A.S. TORRAO, J. PALERMO-NETO & M.M. BERNARDI
- B023** **Hypoxic-ischemic brain injury: modifications in enzymatic activities associated with alterations in histological analysis in the hippocampus of neonatal rats**  
V.C. PIMENTEL, M.B. MORETTO, V.M. MORSCH, S.A. DA LUZ & M.R. SCHETINGER
- B024** **Prenatal exposure to cigarette smoke causes persistent changes in the oxidative balance and in DNA structural integrity in rats submitted to the animal model of schizophrenia**  
D.D.B. FRAGA, P.F. DEROZA, F.V. GHEDIM, A.V. STECKERT, R.D. DE LUCA, A. SILVERIO, A. CIPRIANO, D. LEFFA, G.D. BORGES, J.L. QUEVEDO, R. PINHO, F.D. PIZZOL, V. ANDRADE & A.I. ZUGNO
- B025** **Prenatal exposure of valproic acid-induced behavioral and biochemical changes in rats**  
H.S. SHIM, H.-J. PARK, K.S. KIM, D.-H. HAHM, H. LEE & I. SHIM
- B026** **Lead toxicity during growth spurt period - Golgi and electron microscopic study in rats**  
S.M. RAO & S. SMITHA
- B027** **Distribution of immune inhibitory molecule CD200 and its receptor in the developing C57BL/6 mice brain before and after H/I injury**  
K. SHRIVASTAVA, G. LLOVERA, P. GONZALEZ & L. ACARIN
- B028** **Neurodevelopmental effects of prenatal crude oil exposure in mice offsprings**  
O.E. MESEMBE
- B029** **Dysregulated amyloid precursor protein mRNA translation affects spine morphology in fragile X Syndrome**  
E. PASCIUTO, S. DE RUBEIS, T. WAHLE, C. DOTTI, B. DE STROOPER & C. BAGNI
- B030** **Early hypoxic-ischemic injury disrupts the oscillatory coupling within developing prefrontal-hippocampal networks**  
M.D. BROCKMANN & I.L. HANGANU-OPATZ
- B031** **Nutritional deficiency in methyl donors during development and brain maturation leads to long term tissue and functional disorders**  
N. MARTIN, C. BOSSENMEYER-POURIÉ, J.-L. GUÉANT, J.-L. DAVAL & G. POURIÉ
- B032** **How autistic children know what you are doing. An EEG study**  
C. BERCHIO, M.A. UMILTÀ, F. APICELLA, R.R. FEDERICO, F. MURATORI & V. GALLESE
- B033** **Platinum compound treatment and neurotoxicity during CNS development: expression of calcium-binding proteins and neurofilament protein in the rat hippocampal formation**  
V.M. PICCOLINI, V. DAL BO, M.G. BOTTONE, C. FENOGLIO, S. DE PASCALI, F.P. FANIZZI & G. BERNOCCHI

- B034** Neurotransmitter levels in different brain areas of the mouse model for autism spectrum disorder  
C. GERACE, C. VIAGGI, F. VAGLINI, C. PARDINI & G.U. CORSINI
- B035** The short time structural plasticity of dendritic spines is altered in a mouse model of rett- syndrome  
S. LANDI, E. PUTIGNANO, E.M. BOGGIO, M. GIUSTETTO, T. PIZZORUSSO & G.M. RATTO
- B036** Developmental exposure to chlorpyrifos and diazinon impairs passive avoidance retention in adult rats  
M. NASEH, J. VATANPARAST & M. BANIASADI
- B037** The protective role of vitamin C on the hippocampal neurons in perinatally lead poisoned rat pups  
H. SEPEHRI, F. GANJI & H. AMIRKHANLOU
- B038** TBC1D24: a novel epilepsy gene involved in neuronal development  
A. FALACE, C. CARDOSO, A. REPRESA, F. BENFENATI, F. ZARA & A. FASSIO
- B039** Effects of maternal ethanol intake during pregnancy and lactation on the locomotor and exploratory activities in pups at different stages of brain development  
S.E. MUSSI, V.G.O. VIDAL, D.F. DA SILVA, H.M. FIORILLO, M.M. IYOMASA & M.L.N.M. ROSA
- B040** Functional analyses of autism-related mutations in contactin genes  
O. MERCATI, M. KONYUKH, A. DANCKAERT, K. WATANABE, R. DELORME, M. LEBOYER, P. CHASTE, A. MARUANI, F. AMSELLEM, N. LEMIERRE, C. LEBLOND, V. DUFRESNE, J.-P. BOURGEOIS, T. BOURGERON & I. CLOËZ-TAYARANI
- B041** Effects of prenatal exposure to cannabinoid agonist on postmitotic neuroblasts and glutamatergic cortical neurons in the developing cerebral cortex  
T.M. SAEZ & H.A. BRUSCO
- B042** Effect of early life nicotine exposure on limbic system development in the male rat  
R. ALLEMANG-GRAND, S.J. BIGNUCOLO, A.A. PETRONE, A.C. HOLLOWAY & A.T. KONKLE
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- 02. Axonal guidance, synaptic formation & trophic factors (Axonal guidance)**
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- B043** Attractive axon guidance requires phosphatidylinositol 3-kinase-dependent membrane trafficking in the growth cone  
H. AKIYAMA, T. TOJIMA & H. KAMIGUCHI
- B044** The GATA transcription factor, *grn*, transcriptionally regulates *Unc-5* in drosophila dorsal motoneurons  
A. ARZAN ZARIN, A. C DALY, J. HEULSMIEIER & J.P. LABRADOR
- B045** Cannabinoid receptor CB<sub>1</sub> modulates axon guidance  
A. ARGAW, G. DUFF, H. CHÉRIF, B. CÉCYRE, N. TEA & J.-F. BOUCHARD
- B046** Snapin mediates the AC6-induced inhibition of neurite outgrowth by hijacking Snap25 from the SNARE apparatus  
C.-S. WU, J.-T. LIN, C.-L. CHIEN, W.-C. CHANG, H.-L. LAI & Y. CHERN
- B047** Transcriptome analysis in the superior cervical ganglion of dystrophic *mdx* mice  
V. LICURSI, I. CAIELLO, M.E. DE STEFANO, R. NEGRI & P. PAGGI
- B048** Cyclic AMP and PKA are involved in the neuronal response to polymerized laminin  
A.C. GIORDANI DUARTE, T. COELHO-SAMPAIO & E. FREIRE
- B049** Lipid-mediated axon guidance in the developing spinal cord  
A.T. GUY, Y. NAGATSUKA, P. GREIMEL, T. NABETANI, M. INOUE, A. NAKATA, N. OOASHI, Y. ITO, K. OHTA, Y. HIRABAYASHI & H. KAMIGUCHI
- B050** A chemical genetic approach identifies antipsychotics as potential regeneration promoting compounds  
A.L. JOHNSTONE, G.W. REIERSON, R.P. SMITH, V.P. LEMMON & J.L. BIXBY
- B051** Characterization of developmental mechanisms and axonal growth of dorsal interneurons in the chick hindbrain  
A. KOHL, A. KLAR & D. SELA-DONENFELD
- B052** Lack of dystrophin affects axon regeneration *in vivo* and neurite outgrowth *in vitro*  
L. LOMBARDI, I. LANNI & M.E. DE STEFANO
- B053** Quantitative time-lapse measurements of neurite- and axon growth effected by substrate-bound gradient  
P. ZENTIS, L. RAJAPPA, M. PABST, R. FRICKE, B. HOFMANN, D. SAALFRANK, M. PRÖMPERS, M. BANZET, A. OFFENHÄUSSER & S. MEFFERT
- B055** Neuronal growth-associated proteins (nGAPs) regulate growth cone morphology  
M. NOZUMI, J. LU, K. TAKEUCHI & M. IGARASHI
- B056** Stimulation of neurite retraction and growth by local release of guidance molecules from lipid vesicles  
G. PINATO, L. THUY LIEN, E. D'ESTE, V. TORRE & D. COJOC
- B057** Imaging sensory neurons and neuroblastoma SH-SY5Y during manipulation with optical tweezers  
B.M. RADU, D.D. BANCIU, A. MARIN, D.I. ROTARU & M. RADU
- B058** Gene therapy to promote peripheral nerve regeneration after trauma lesions  
S. RAIMONDO, F. NOVATI, S. BOMPASSO, S. MOIMAS, I. PERROTEAU, M. GIACCA & S. GEUNA
- B059** Investigation of odorant receptor-mediated adhesion in S180 cells  
M. RICHARD, S. JAMET, C. GOURIER, F. PINCET & A. TREMBLEAU



## POSTER PRESENTATION

- B060** **Transgenic models for the study of regenerative processes of peripheral nerves**  
G. RONCHI, P. SALAMONE, F. DI SCIPIO, L. MURATORI, S. BOMPASSO, M. FORNARO & S. GEUNA
- B061** **Maturation of the cisternal organelle in the hippocampal neuron's axon initial segment**  
D. SÁNCHEZ-PONCE, J. DEFELIPE, J.J. GARRIDO & A. MUÑOZ
- B062** **Cross regulations between intrinsic and environmental semaphorins during motor axon guidance**  
I. SANYAS, M. BOZON, F. MORET & V. CASTELLANI
- B063** **Axonal guidance receptors and neuronal death after spinal cord injury**  
M.I. SHIFMAN
- B064** **Hierarchical structure of asymmetric rotational motility from molecular motors to neural circuits**  
A. TAMADA, S. KAWASE, F. MURAKAMI & H. KAMIGUCHI
- B065** **The signaling pathways controlling clathrin-mediated endocytosis for bidirectional growth cone guidance**  
T. TOJIMA, R. ITOFUSA & H. KAMIGUCHI
- B066** **Adhesion and differentiation of neuronal cells on anisotropic nanostructured substrates: neurite contact guidance tolerance to topographical noise**  
I. TONAZZINI, S. MEUCCI, P. FARACI, Y. ELGERSMA, F. BELTRAM & M. CECCHINI
- B067** **Investigating the role of drebrin in the neuronal growth cone**  
D.C. WORTH, S. GERALDO, C. DALY & P. GORDON-WEEKS
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- 04. Stem cells: neural injury & repair (Stem cells)**
- B068** **A mesenchymal-like Zeb1+ niche harbors dorsal radial GFAP+ stem cells in the spinal cord**  
J.-C. SABOURIN, P.-O. GUICHET, A. PRIVAT, A. PATTYN, F.E. PERRIN & J.-P. HUGNOT
- B069** **Neuroprotective effects of bone marrow-derived mesenchymal stem cells after spinal cord injury in adult rats**  
L.N. NOVIKOVA, M. BROHLIN, P.J. KINGHAM, M. WIBERG & L.N. NOVIKOV
- B070** **Human Mesenchymal Precursor Cells (hMPCs) from Spinal Cord Injured (SCI) patients transplanted into rat Spinal Cords after complete transection**  
S. LOVETT, S. HODGETTS & G. PLANT
- B071** **Intravenously administered mesenchymal stem cells improve lifespan and motor skills in a mouse model of ALS**  
M. MILANESE, T. BONIFACINO, F. GIRIBALDI, M.C. PRINCIPATO, S. MORANDO, S. CASAZZA, D. GIUNTI, L. VERGANI, A. UCCELLI, A. VOCI & G. BONANNO
- B072** **Bone marrow transplantation in hindlimb muscles in amyotrophic lateral sclerosis mouse model rescues motor-neurons from death and improves motor function**  
D. PASTOR, M.C. VISO-LEÓN, A. RANDO, J. JARAMILLO-MERCHÁN, J. JONES & S. MARTÍNEZ
- B073** **Mesenchymal stem cells improve learning and memory in rats with Alzheimer's disease**  
A. ALIZADEH, P. BABAEI, B. SOLTANI & A. SOLTANI
- B074** **Neural marker expressions of neuronal induced human bone marrow mesenchymal stem cells**  
N. KARAKAS, G. ARIKAN & S. ISIK
- B075** **Cell therapy after global ischemia in adult rats induces radial glia-like cell differentiation in the SVZ**  
F. GUBERT, C. ZAVERUCHA-DO-VALLE, F.R. FIGUEIREDO, A.S. DE VASCONCELOS, M. BARGAS-REGA, A.L. MENCALHA, E. ABDELHAY, M.F. SANTIAGO & R. MENDEZ-OTERO
- B076** **Therapeutic effect of bone-marrow mononuclear cells in the optic nerve regeneration**  
C. ZAVERUCHA DO VALLE, F. GUBERT, L. MESENTIER-LOURO, M. BARGAS-REGA, B. PAREDES, A.L. MENCALHA, E. ABDELHAY, M.F. SANTIAGO & R. MENDEZ-OTERO
- B077** **Roles of notch and ErbB signaling in the fate commitment of bone marrow-derived schwann cells**  
D.K.-Y. SHUM, E.W.-Y. TAI, G.K.-H. SHEA, K.H.-Y. LEUNG & Y.-S. CHAN
- B078** **MSCs reduce neuronal cell death in glutamate-treated cortical neurons**  
A. SCUTERI, D. MAGGIONI, E. DONZELLI, M. RAVASI, V. RODRIGUEZ-MENENDEZ, M. MILOSO & G. TREDICI
- B079** **Rat adult mesenchymal stem cells promote myelin formation *in vitro***  
M. RAVASI, A. SCUTERI, S. PASINI, D. MAGGIONI, E. DONZELLI, M. BOSSI & G. TREDICI
- B080** **Genes and cellular types involved in optic nerve regeneration after bone marrow derived cell therapy**  
L.A. MESENTIER-LOURO, J.L.L. CORONEL, C. ZAVERUCHA-DO-VALLE, A.J. SILVA-JUNIOR, A.L. MENCALHA, E. ABDELHAY, A.L. TORRES, B. DIAZ-PAREDES, R. MENDEZ-OTERO & M.F. SANTIAGO
- B081** **Human dental pulp cells: a new source of cell therapy in a mouse model of compressive spinal cord injury**  
F.M. ALMEIDA, S.A. MARQUES, B.S. RAMALHO, D.V. CADILHE, S.K. REHEN & A.M.B. MARTINEZ
- B082** **Axon regeneration properties of human periodontal ligament stem cells**  
J. JARAMILLO-MERCHÁN, C. BUENO, C. RAMIREZ, D. PASTOR, M.C. VISO-LEÓN, L. MIRA-PASCUAL, J.V. TORRES-PÉREZ, J. JONES & S. MARTÍNEZ



- B083** **Effect of specific culture conditions on differentiation of CD 133+/CD 133- umbilical cord blood cells into neural lineages**  
L. SLOVINSKA, I. NOVOTNA, M. CIZEK, J. RADONAK & D. CIZKOVA
- B084** **Treatment of children with severe head injury by umbilical cord blood nucleated cells: a pilot clinical study**  
Z. SEMENOVA, Y. ROMANOV, N. SEMENOVA, O. KARASEVA, L. ROSCHAL, V. SMIRNOV & N.Y. SEMENOVA
- B085** **Novel stem cell based therapy for the treatment of inflammation-induced fetal brain injury**  
T. YAWNO, J. SCHUILWERVE, T.J. MOSS, P. VOSDOGANES, A.J. WESTOVER, G. JENKIN, E.M. WALLACE & S.L. MILLER
- B086** **PKC inhibits myelin repair in the context of local demyelination induced in mice optic chiasm**  
F. POURABDOLHOSSEIN, M. JAVAN, S. DEHGHAN, S. MOZAFARI, J. MIRNAJAFIZADEH & B. DEMENEIX
- B087** **Studying the effect of cyclic AMP on the symptoms of EAE model of multiple sclerosis and myelin repair by neural stem cells in mice**  
S. KHEZRI, M. JAVAN, S. SEMNANIAN & H. BAHARVAND
- B088** **Nogo receptor knockdown in EAE-mice potentiates myelin repair by mobilizing endogenous neural stem cells**  
M. JAVAN, S. KHEZRI, S. SEMNANIAN & H. BAHARVAND
- B089** **Using human fetal neural stem cells or human induced pluripotent stem cell-derived neural precursors for the treatment of experimental spinal cord injury**  
N. ROMANYUK, T. AMEMORI, K. TURNOVCOVA, P. JENDELOVA, B. ONTENIENTE, J. PRICE & E. SYKOVA
- B090** **Intravascular administration of stem cells for neurological diseases: lessons from amyotrophic lateral sclerosis**  
D. MITRECIC, C. NICAISE, S. GAJOVIC & R. POCHE
- B091** **Irradiation promotes adult neural stem cells proliferation before acquisition of EGF-R**  
M. DAYNAC, J.R. PINEDA, A. CHICHEPORTICHE, C. TRANCHEVENT, F. BOUSSIN & M.-A. MOUTHON
- B092** **Neural stem cells-enriched tubulization improves anatomical and functional restoration of severed rat sciatic nerve**  
L. VERGA FALZACAPPA, M. LANDO, R. TURRINI, A. MELATINI, R. MELE & G. LEANZA
- B093** **Chances substantially increase survival of stem cells in host tissue by preconditioning of both stem cells as well as host tissue before implantation**  
J. BURDA, V. DANIELISOVA, M. NEMETHOVA, M. GOTTLIEB & R. BURDA
- B094** **Neural stem cells transplantation and treadmill training exercise for spinal cord injury**  
D.H. HWANG, H.Y. SHIN, B.-Y. RYU & B.G. KIM
- B095** **Effect of HCMV infection on expression of notch associated signaling molecules in human neural stem cells during differentiation into astrocytes**  
X.-Q. LU
- B096** **Neuronal differentiation of neural stem cells by a novel retinoic acid-loaded nanoparticles delivery system**  
T. SANTOS, R. FERREIRA, J. MAIA, S. XAPELLI, L. CORTES, F. AGASSE, J. BRAGANÇA, L. FERREIRA, J.O. MALVA & L. BERNARDINO
- B097** **A vascular niche factor for neural stem cells of the mammalian brain**  
J. NAMIKI, S. SUZUKI, S. SHIBATA, Y. MATSUZAKI & H. OKANO
- B098** **Cytokines produced by grafted neuroectodermal stem cells prevent motoneuron cell death**  
K. PAJER, G. FEICHTINGER, D. KLEIN, H. REDL & A. NÓGRÁDI
- B099** **The effect of BDNF and Adipose tissue derived stem cells transplantation on cognitive deficit in Alzheimer model of rats**  
P. BABAEI, B. SOLTANI & A. ALIZADEH
- B100** **SIKVAV-modified hydrogel scaffolds for neural differentiation and the treatment of spinal cord injury**  
S. KUBINOVA, L. BARANOVICOVA, A. HEJCL, S. FOROSTYAK, D. ARBOLEDA & E. SYKOVA
- B101** **Human adipose tissue-derived stem cell conditioned medium activates frataxin production in Friedreich's ataxia cells**  
J. JONES, J. JARAMILLO-MERCHÁN, C. BUENO & S. MARTÍNEZ
- B102** **Mesenchymal stem cells derived from adipose tissue increase vascularization and open field locomotion after spinal cord injury**  
K. MENEZES, J.P. GONÇALVES, A.S. CRUZ, D.V. LOPES, M. BONAMINO, J.R.L. MENEZES, M.I.D. ROSSI & T. COELHO-SAMPAIO
- B103** **Ontogeny-recapitulating generation and tissue integration of ES cell-derived Purkinje cells**  
K. MUGURUMA, A. NISHIYAMA, Y. ONO, H. MIYAWAKI, T. HIRANO & Y. SASAI
- B104** **Generation of cortical neurons from human embryonic stem cells and human induced pluripotent cells**  
D. TORNERO & Z. KOKAIA
- B105** **Influence of a delay between lesion and transplantation on neo-angiogenesis, cell proliferation and survival of cortical grafted embryonic neurons**  
A. GAILLARD, S. PÉRON, F. DEBARBIEUX, P. WEBER, G. ROUGON & M. JABER
- B106** **Induced PSA expression in ES-derived dopaminergic neurons improves graft/host integration and behavioral recovery in PD animals**  
D. BATTISTA, Y. GANAT, U. RUTISHAUSER & L. STUDER



## POSTER PRESENTATION

- B107** Efficient generation and developmental analysis of basal forebrain cholinergic neurons from mouse embryonic stem cells  
S. ISHII, Y. OKADA, F. MIYA, T. TSUNODA, T. SHIMAZAKI & H. OKANO
- B108** Modulation of neural differentiation of mouse embryonic stem cells by bradykinin  
I.C. NASCIMENTO, M.M. PILLAT, A.A. NERY & A.H. ULRICH
- B109** Evaluation of human iPS cells by neural differentiation and tumorigenicity  
Y. OKADA, F. MIYA, Y. KANEMURA, M. KOIKE, K. KOHDA, M. YUZAKI, Y. UCHIYAMA, T. TSUNODA, S. YAMANAKA & H. OKANO
- B110** Role of glioma stem-like cells in angiogenesis process during the glioblastoma development  
S. BULNES, Á. GARCÍA-BLANCO, H. BENGOTXEA, N. ORTUZAR, E.G. ARGANDOÑA, I. RICO-BARRIO & J.V. LAFUENTE
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- 06. Excitable membranes & ion channels (Physiology)**
- B111** Physiological and morphological features of layer II/III pyramidal cells in rat insular cortex  
K. ADACHI, N. KOSHIKAWA & M. KOBAYASHI
- B112** CCL2 increases Nav1.8 current and nociceptor excitability through a  $G_{i/o}$  dependent-mechanism  
M. BELKOUCH, M.A. DANSEREAU, M. POHL, N. BEAUDET, A. CHRAIBI, S. MELIK-PARSADANIANTZ & P. SARRET
- B113**  $Ca_v2.2$   $Ca^{2+}$  channel peptides inhibit synaptic transmission and G protein modulation in superior cervical ganglion neurons (SCGNs)  
G. BUCCI, C. VOGL, S. MOCHIDA & G.J. STEPHENS
- B114** Sodium-activated potassium current functional expression in the vestibular afferent neurons of the rat  
B.S. CERVANTES, E.E. SOTO, R.S. VEGA & S.H. ZAMUDIO
- B115** Site specificity of hippocalcin signaling in dendrites of hippocampal neurons  
V.P. CHERKAS, N.I. KONONENKO, A.V. DOVGAN, L.P. HAYNES, R.D. BURGOYNE & P.V. BELAN
- B116** Enhanced dendritic action potential backpropagation in parvalbumin-positive basket cells during sharp wave activity  
B. CHIOVINI, G.F. TÚRI, G. KATONA, A. KASZÁS, D. PÁLFI, F. ERDÉLYI, G. SZABÓ, H. MONYER, A. CSÁKÁNYI, S.E. VIZI & B. RÓZSA
- B117** Localisation of  $GABA_A$  receptor alpha subunits in the rat locus coeruleus  
N.L. CORTEEN, W. SIEGHART, A. BUTT & J.D. SWINNY
- B118** Serotonin induces central fatigue by inhibiting sodium channels at the axon initial segment of motoneurons  
F. COTEL, R. EXLEY, R.W. BERG, S. CRAGG & J.-F. PERRIER
- B119**  $IK_{Ca}-Ca_v3$  complex reduces temporal summation of parallel fiber input in cerebellar Purkinje cells  
J.D.T. ENGBERS, D. ANDERSON, R. REHAK, H. ASMARA, W.H. MEHAFFEY, S. HAMID, B.E. MCKAY, M. KRUSKIC, G.W. ZAMPONI & R.W. TURNER
- B120** Structural and functional subdivision of the axon initial segment following activity-dependent plasticity  
M.S. GRUBB
- B121** Both A-current inactivation and EPSP decay rates increase during development in hippocampal CA1 neurons  
S. HONG & C.D. FIORILLO
- B122** Profound alterations in the intrinsic excitability of cerebellar Purkinje neurons following neurotoxin 3-acetylpyridine-induced ataxia in rat: new insights into the role of small conductance  $K^+$  channels  
M.R. KAFFASHIAN, M. SHABANI, I. GOUDARZI, G. BEHZADI, A. ZALI & M. JANAHMADI
- B123** Spatial distributions of GABA receptors and local inhibition of spike-induced  $Ca^{2+}$  transients investigated with GABA uncaging in the dendrites of CA1 pyramidal neurons  
Y. KANEMOTO, M. MATSUZAKI, S. MORITA, A. MOMOTAKE & H. KASAI
- B124** Intrinsic discharge patterns of floccular purkinje cells in rat  
Y.G. KIM, C.H. KIM, Y.K. KIM, J. KIM & S.J. KIM
- B125** Lack of adaptation of interspike intervals in Purkinje cells of the vestibulocerebellum  
S.J. KIM, C.-H. KIM, Y.G. KIM, C.H. RYU & J. KIM
- B126** L-type calcium channels modulate hippocampal sharp wave - ripple activity  
S. KOUVAROS, H. POFANTIS & C. PAPATHEODOROPOULOS
- B127** Effect of inhibition and Ih in the control of spike timing during theta-frequency oscillation in an integrate-and-fire neuron model  
J. KWAG
- B128** Molecular mechanisms of persistent activity in the prefrontal cortex  
Y.-T. LEI, S. THUAULT, E.R. KANDEL & S.A. SIEGELBAUM
- B129** Unipolar brush cells generate delayed bursts under H-current control  
F. LOCATELLI, L. BOTTÀ, S. MASETTO & E. D'ANGELO
- B130**  $GABA_A$  and  $GABA_B$  receptors mediate tonic inhibition of noradrenergic A7 neurons in rats  
H.-W. YANG, H.-Y. WANG, H.-C. LU & M.-Y. MIN

- B131** The Ca<sub>v</sub>2.3 E/R-Type Ca<sup>2+</sup> channel is a modulator of rodent sleep architecture  
A. MÜNCH, T. PROF. SCHNEIDER, R. MÜLLER & M. PD DR. DR. WEIERGRÄBER
- B132** Erg potassium channels in vestibular afferent neurons isolated from the rat  
M.C. PEREZ FLORES, E. SOTO & R. VEGA
- B133** Serotonergic modulation of excitability in a cerebellar interneuron  
A. POLENGHI & L. FORTI
- B134** Interaction between low voltage activated calcium channels (Cav3) and large conductance calcium and voltage activated potassium channels (BK)  
R. REHAK, C. BLADEN, R.W. TURNER & G.W. ZAMPONI
- B135** Contribution of BK channels to action potential repolarization at minimal cytosolic Ca<sup>2+</sup> concentration in chromaffin cells  
B. SCOTT, D. BUSTILLO-MERINO, L. OLIVOS-ORÉ, M.V. BARAHONA, I. CUCHILLO-IBAÑEZ & A.R. ARTALEJO
- B136** Revisiting inward rectification: K ions permeate through Kir2.1 channels during high-affinity block by spermidine  
R.-C. SHIEH
- B137** Acid-sensing ion channel 3 (ASIC3) in the trigeminal mesencephalic neurons  
Y.-H. SU, C.-C. CHEN & M.-Y. MIN
- B138** An immunohistochemical study of GABA<sub>A</sub> and glycine receptor subunits in the adult human hypoglossal nucleus  
H.J. WALDVOGEL, F.M. BIGGINS, K. BAER, M.I. REES & R.L. FAULL
- B139** Resting potassium currents in rat prefrontal cortex pyramidal neurons  
G. WITKOWSKI, A. KSIAZEK & P. SZULCZYK
- 
- 07. Synaptic transmission & signal transduction (Trafficking & signalling)**
- 
- B140** Interactions between P2X and GABA<sub>A</sub> receptors in the central nervous system  
J. ANDREW, O. PALYGIN & Y. PANKRATOV
- B141** Microparticles shed from microglia represent a new pathway of glia-to-neuron communication  
E. ANTONUCCI, E. TUROLA, L. RIGANTI, M. CALEO, C. PERROTTA, E. CLEMENTI, P. GIUSSANI, P. VIANI, M. MATTEOLI & C. VERDERIO
- B142** TRP, TRPL and cacophony channels mediate Ca<sup>2+</sup> influx and exocytosis in photoreceptor synaptic terminals  
J. BACIGALUPO, G. ASTORGA & M. SANHUEZA
- B143** Chronic high glucose does not affect the content and distribution of several exocytotic and vesicular proteins in primary retinal cell cultures  
F.I. BAPTISTA, A. CASTILHO, J.M. GASPAR, J. LIBERAL, C. AVELEIRA & A.F. AMBRÓSIO
- B144** Muscarinic receptors may suppress slow afterhyperpolarization by decreasing hippocampal translocation to its membrane targets  
A.V. DOVGAN, N.I. KONONENKO, V.P. CHERKAS, T.M. TSUGORKA, L.P. HAYNES, R.D. BURGOYNE & P.V. BELAN
- B145** Decoding transcriptional networks in activity-dependent gene expression: a comparative genomics study of CREB, SRF, EGR1 and FOS regulons  
E. BENITO, L.M. VALOR & A.L. BARCO
- B146** Studying the Ras-ERK pathway through single-cell analysis in acute brain slices  
I.M. MORELLA & R. BRAMBILLA
- B147** Characterization of Ca<sup>2+</sup> influx and vesicle exocytosis in synaptic terminals of SNAP-25<sup>+/-</sup> mice  
S. CHANG & H. TASCHENBERGER
- B148** PAK3 and its splice variants form regulatory heterodimers with PAK1 in brain  
G. COMBEAU, P. KREIS, V. ROUSSEAU, M. AMAR, P. FOSSIER & J.-V. BARNIER
- B149** A<sub>1</sub>-A<sub>2A</sub> heteromer is coupled to both G<sub>s</sub> and G<sub>i/o</sub> protein  
S. CRISTOVAO-FERREIRA, S.H. VAZ, J.A. RIBEIRO & A.M. SEBASTIAO
- B150** Calmyrin2 involvement in vesicular trafficking mediated by the interaction with SNARE proteins  
K. DEBOWSKA, M. BLAZEJCZYK, C. HOOGENRAAD, J. JAWORSKI, J. KUZNICKI & U. WOJDA
- B151** Characterization and regulation of diacylglycerol lipase in isolated nuclei from rat cerebellum  
V.L. GAVEGLIO, S.J. PASQUARÉ & N.M. GIUSTO
- B152** A role of endophilin A in clathrin coated vesicles uncoating at neuronal synapses  
S. GIOVEDI, I. MILOSEVIC, X. LOU, A. RAIMONDI, S. PARADISE, F. BOSCO, F. BENFENATI, O. CREMONA & P. DE CAMILLI
- B153** Compared distribution of CB1 and mGluR2/3 receptors in the dentate gyrus of the mouse  
S.M. GÓMEZ-URQUIJO, A. RAMOS-URIARTE, I. ELEZGARAI, N. PUENTE & P. GRANDES
- B154** Characterization of BDNF expression and function in cultured Bergmann glial cells  
A.M. GUILLEM, I. POBLETE-NAREDO, L.C.R. HERNANDEZ-KELLY, E. LOPEZ-BAYGHEN & A. ORTEGA
- B155** NMDA receptors containing the NR2B (GluN2B) subunit are critical for synapse development, homeostatic synaptic plasticity, and social behavior  
C.-C. WANG, B. NAKASHIMA, S.-C. CHANG, A. GHOSH & B. HALL



## POSTER PRESENTATION

- B156** Arginylated calreticulin: a pro-apoptotic protein?  
C. LOPEZ SAMBROOKS, M.A. CARPIO & M.E. HALLAK
- B157** Functional expression of choline transporter-like protein 1 (CTL1) in human neuroblastoma cells and its link to acetylcholine synthesis  
M. INAZU, T. YAMADA, H. TAJIMA, T. MATSUMIYA & K. NISHIOKA
- B158** Fibroblast growth factor homologous factor 1 (FHF1/FGF12) regulates neuronal morphology by interaction with NEMO/IKK $\gamma$  in the axon-initial segment of adult neurons and negative modulation of constitutive NF- $\kappa$ B signaling  
H.-G. KÖNIG, B.J. FENNER, R.F. SCHWAMBORN, T. BERNAS & J.H. PREHN
- B159** Histone Deacetylase 6 regulates the acute stress-induced enhancement of glutamatergic signaling in the prefrontal cortex  
J.B. LEE & Z. YAN
- B160** Actin dependent recruitment of reluctant SVs into the fast releasing pool at the calyx of Held  
J.S. LEE, W.-K. HO & S.-H. LEE
- B161** Extracellular cGMP modulates presynaptic kainate receptors  
M. MARCOLI, C. CERVETTO, M.C. MAZZOTTA, D. FRATTAROLI & G. MAURA
- B162** GLAST/EAAT1-dependent signaling in cultured Bergmann glia  
Z. MARTINEZ-LOZADA, L.C.R. HERNANDEZ-KELLY & A. ORTEGA
- B163** Regulation of phosphatidylcholine-derived signaling during oxidative stress. Participation of synaptic membrane rafts  
M.V. MATEOS, G.A. SALVADOR & N.M. GIUSTO
- B164** Cellular and synaptic localization of EAAT2a in human cerebral cortex  
M. MELONE, M. BELLESI, A. DUCATI, M. IACOANGELI & F. CONTI
- B165** Insights into the role of PKC-dependent ubiquitination and phosphorylation on the glycine transporter 1 function  
S.P. BARRERA, J. VARGAS-MEDRANO, F. PLENGE, V. CASTREJON & M. MIRANDA
- B166** Functional interaction between alphaCaMKII and GluN2B controls ERK-dependent structural plasticity  
O. NICOLE, F. ELGAAMOUCHE, O. MOUSTIÉ, M. LEMIEUX, P. DE KONINCK & A. BUISSON
- B167** Structural basis and functional consequences of the interaction of NMDA receptor 2B subunit with calcium/calmodulin-dependent protein kinase II  
M. MADHAVAN, A. G.M., R. PRABHU, J. CHERIYAN & R.V. OMKUMAR
- B168** Gephyrin regulates GABAergic and glutamatergic synaptic transmission in hippocampal cell cultures  
R. PIZZARELLI, Z. KASAP VARLEY, R. ANTONELLI, S. STANCHEVA, E. CHERUBINI & P. ZACCHI
- B169** Nitric oxide canonical pathway modulates ascorbate uptake and SVCT-2 expression in cultured retinal cells: involvement of NF- $\kappa$ B signaling  
C.C. PORTUGAL, T.G. ENCARNAÇÃO, R. SOCODATO & R. PAES-DE-CARVALHO
- B170** Mctp1 is expressed in the CNS and involved in regulation of neuronal exocytosis  
L. QIU & F. LIANG
- B171** Modulation of endoplasmic reticulum structure and function in neurons  
O.A. RAMÍREZ, M. JAUREGUBERRY, M. OSORIO-REICH, T. ASAHII, J. ORTEGA, A. COUVE & S. HÄRTEL
- B172** Imaging Delta Opioid Receptor trafficking in acute hippocampal slices using fluorescent DOR-eGFP knock-in mice  
X. REZAI, M.J. ROUX, A. MATIFAS, J.-L. VONESCH, B.L. KIEFFER & D. MASSOTTE
- B173** Dopamine D1R activation triggers Erk1/2 activation in striatal neurons through the interaction with the protein tyrosine phosphatase Shp-2  
D. SAVOLDI, P. SAVOIA, C. FIORENTINI, C. MATTANZA, G. COLLO, P.F. SPANO & C. MISSALE
- B174** Neuronal glycoprotein M6a induces filopodia formation via association with cholesterol-rich lipid rafts  
C. SCORTICATI, K. FORMOSO & A.C. FRASCH
- B175** Approach for photic entrainment mechanisms of circadian clock via SCOP signaling  
K. SHIMIZU & Y. FUKADA
- B176** A novel intersectin-mediated mechanism for synaptic vesicle clustering  
A. PECHSTEIN, J. BACETIC, W. JIAO, F. ONOFRI, E. SOPOVA, F. BENFENATI, V. HAUCKE & O. SHUPLIAKOV
- B177** Membrane lipid rafts are required for D2 dopamine receptor signaling  
D.R. SIBLEY, L.A. HAZELWOOD, R.A. ROOF, R.B. FREE, S.M. VANDERWERF, Y. HAN, K.A. NEVE & J.A. JAVITCH
- B178** The two transcription factors Sp1 and CREB regulate NCX1 and NCX2 expression and activity through ERK1/2 and p38 map kinases in PC12 cells  
R. SIRABELLA, A. SECONDO, A. PANNAZIONE, P. MOLINARO, M. CATALDI, G. DI RENZO & L. ANNUNZIATO
- B179** AMPA-coupled nitric oxide (NO) production regulates Src tyrosine kinase activation in retinal cells  
R. SOCODATO, F. SANTIAGO, C.C. PORTUGAL, A.R. SANTIAGO, A.F. AMBRÓSIO & R. PAES-DE-CARVALHO

- B180** Molecular and morphological configuration for 2-arachidonoylglycerol-mediated retrograde signaling at mossy cell-granule cell synapses in the dentate gyrus  
M. UCHIGASHIMA, M. YAMAZAKI, M. YAMASAKI, A. TANIMURA, K. SAKIMURA, M. KANO & M. WATANABE
- B181** Deprivation of anticipated food under scheduled feeding induces c-Fos expression in the caudal part of the arcuate nucleus of hypothalamus through histamine receptors in rats: potential involvement of E3 subgroup of histaminergic neurons in the tuberomammillary nucleus  
H. UMEHARA, H. FUKUI, H. MIZUGUCHI, N. TAKEDA, E. SENBA, Y. HAYASHI & N. ISHIMARU
- B182** Role of TBC1D24 and the protein partner ARF6 at the synapse:  
M. FADDA, N. VANNI, A. FALACE, P. LIPPIELLO, F. ONOFRI, P. BALDELLI, F. ZARA, F. BENFENATI & A. FASSIO
- B183** Modulation of GAT-1 transporter in astrocytes by BDNF involves the truncated form of TrkB receptors coupled to a non-classic PLC- $\gamma$ /PKC- $\delta$  and Erk/MAP kinase pathway  
S.H. VAZ, S. CRISTOVAO-FERREIRA, J.A. RIBEIRO & A.M. SEBATIO
- B184** Scanning mutagenesis of the I-II loop of the Cav2.2 calcium channel identifies residues Arginine 376 and Valine 416 as molecular determinants of voltage dependent G protein inhibition  
L.B. VIEIRA, W.H. TEDFORD, A.E. KISILEVSKY, D. VARELA, L. CHEN & G.W. ZAMPONI
- B185** Distribution of interleukin-1 receptor complex at the synaptic membrane driven by interleukin-1beta and NMDA stimulation  
F. GARDONI, M. BORASO, E. ZIANNI, E. CORSINI, C.L. GALLI, F. CATTABENI, M. MARINOVICH, M. DI LUCA & B. VIVIANI
- B186** Vesicle circulation distributes and optimizes synaptic neuropeptide release  
M.Y. WONG, D.L. DEITCHER, C. ZHOU & E.S. LEVITAN
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- 08. Neural plasticity (Signalling & synaptic plasticity II)**
- B187** Over-expression of GAP-43 induces cytoskeleton modifications in injured Purkinje cell axons  
E. PAJAJ, A. BUFFO, F. ROSSI & D. CARULLI
- B188** Activation of Rho GTPases triggers dendritic spine remodeling and functional plasticity in the adult rat visual cortex  
C. CERRI, A. FABBRI, E. VANNINI, M. SPOLIDORO, M. COSTA, L. MAFFEI, C. FIORENTINI & M. CALEO
- B189** Stochasticity of the induction of cerebellar long-term depression: a signaling pathway modeling study  
G. ANTUNES & E. DE SCHUTTER
- B190** The effects of NMDA subunit composition on calcium influx and spike timing-dependent plasticity in striatal medium spiny projection neurons  
R.C. EVANS, T. MORERA-HERRERAS, Y. CUI, K. DU, T. SHEEHAN, J. HELLGREN KOTALESKI, L. VENANCE & K.T. BLACKWELL
- B191** The role of stress-regulated glycoprotein M6a in neuronal growth and plasticity  
B. FUCHSOVA, A. ALVAREZ JULIÁ & A.C. FRASCH
- B192** Role of gephyrin for differentiation of newborn olfactory bulb neurons in adult mice  
M. GRABIEC, F. DEPREZ, V. DUVEAU, J.-M. FRITSCHY & S. TYAGARAJAN
- B193** Calcium stores and synaptic plasticity in the ventral and dorsal hippocampus  
G. GRIGORYAN & M. SEGAL
- B194** Effects of PSA-NCAM removal in the interneuronal structural plasticity  
R. GUIRADO, M. PEREZ-RANDO, D. SANCHEZ-MATARREDONA, U. MARTI-MENGUAL & J. NACHER
- B195** Repeated sexual experience increases long-term gene expression of the GluR2 subunit of the AMPA receptor, but does not alter trafficking of either GluR1 or GluR2  
V.L. HEDGES & R.L. MEISEL
- B196** Chronic blockade of adenosine A<sub>2A</sub> receptors abolish BDNF effect on hippocampal LTP  
A. JERÓNIMO-SANTOS, V.L. BATALHA, C. MÜLLER, J. HOCKEMEYER, A.M. SEBASTIÃO, L.V. LOPES & M.J. DIÓGENES
- B197** BDNF induces matrix metalloproteinase 9 (MMP-9) expression in neurons via serum response factor/c-Fos pathway  
B. KUZNIEWSKA, M. BLAZEJCZYK, A. MALIK, J. JAWORSKI, L. KACZMAREK & K. KALITA-BYKOWSKA
- B198** In vitro and in vivo analysis of dendritic AMPA receptor mRNAs trafficking  
L. LA VIA, A. BARBON, C. ORLANDI, D. BONINI, I. RUSSO & S. BARLATI
- B199** The regulatory role of proheparanase in synaptic plasticity at the hippocampus  
C.W. MA, W.C. CHAM, C.H. LAI, Y.S. CHAN & D.K.Y. SHUM
- B200** Wilm's Tumor 1, a new candidate in synaptic plasticity  
C. MARIOTTINI, J.M. SECO, R.D. BLITZER & R. IYENGAR
- B201** Ecto-metalloproteinase bound to plasma membrane of the nerve cells  
M.I. MOSEVITSKY & E.S. KROPOTOVA
- B202** Cholinergic modulation of CA1 synapses by the muscarinic M<sub>1</sub> receptor subtype in rat hippocampal slices  
M.V. OBERHOLZER, E. KORNIŠIUK, F. URBANO, C. CERVENANSKY, D. SERVENT & D.A. JERUSALINSKY



## POSTER PRESENTATION

- B203** Use of phospho-Trk enzyme-linked immunosorbent assay (ELISA) to study neurotrophin-induced Trk activation in cultured cells: focus on BDNF-TrkB signalling  
T. RANTAMÄKI, H. ANTILA, H. AUTIO, L. VESA & E. CASTREN
- B204** Possible involvement of the ERK-CREB pathway in the developmental and lesion-induced plasticity of the superior colliculus  
L. RUIZ, G. VIERCI, C.S. OLIVEIRA, R.B. LEAL & F.M. ROSSI
- B205** Probable mechanisms of Ca<sup>2+</sup>-dependent quantal size regulation in mouse motor terminals  
O. SKITEVA, V. LAPTEVA & O. BALEZINA
- B206** Role of LIS1 in synaptogenesis and plasticity  
A. SUDAROV, F. GOODEN, W. GAN & M.E. ROSS
- B207** Modulation of hippocampal long-term potentiation by activation of the muscarinic acetylcholine receptors involves the inhibition of Kv7/M potassium channels  
E. SUZUKI & T. OKADA
- B208** Colocalization of membrane-associated prostaglandin E synthase-2 and prostaglandin E<sub>2</sub> receptor EP in the rat cerebellum  
T. SUZUKI-YAMAMOTO, C. IMURA, R. NAKAJIMA, K. TOIDA, K. ISHIMURA, Y. KAWAKAMI & Y. TAKAHASHI
- B209** Live imaging of forskolin induced changes in spine morphology accompanied by enhanced MMP-9 activity  
Z. SZEPESI, M. BIJATA, P. ALOT, B. RUSZCZYCKI, J. WLODARCZYK & L. KACZMAREK
- B210** Astrocytes as possible targets of psychopharmacological compounds and conductors of synaptic plasticity  
S. TANASIC, B. DI BENEDETTO, E.M. WAGNER, R. RUPPRECHT & G. RAMMES
- B211** Different time exposure to an enriched environment modifies the expression of brain-derived neurotrophic factor in the cerebellum  
D. VAZQUEZ SANROMAN, C. SANCHIS SEGURA, J. MANZO & M. MIQUEL
- B212** GABA<sub>B1a</sub> receptor isoform controls plasticity state of hippocampal boutons  
I. VERTKIN, T. LAVIV, B. BETTLER & I. SLUTSKY
- B213** Homeostatic NMDA receptor down-regulation via brain derived neurotrophic factor and nitric oxide-dependent signaling in cortical but not in hippocampal neurons  
R. SANDOVAL, A. CAVIEDES, A. GONZALEZ, F. PANCETTI & U. WYNEKEN
- B214** Activity-dependent change in AMPA-receptor trafficking investigated by photolysis of a caged inhibitory peptide in cerebellar Purkinje cell  
K. YAMAGUCHI, Y. TATSU, S. NAGAO & M. ITO
- B215** Acute modulation of hippocampal long-term synaptic plasticity by extracellular iron  
W.-H. YUNG, Y.-Y. LEUNG, J.Y.C. CHOI & Y. KE
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- 11. Sensory systems (Auditory systems & sleep)**
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- B216** P2X7 receptor as a candidate for glutamate release in cochlear cells  
S. ALLOISIO, C. CERVETTO, R. BARBIERI, M. MAZZOTTA, D. FRATTAROLI, M. MARCOLI, G. MAURA & M. NOBILE
- B217** The cholinergic basal forebrain in the ferret and its inputs to the auditory cortex  
V.M. BAJO LORENZANA, N.D. LEACH, P.M. CORDERY, F.R. NODAL & A.J. KING
- B218** Persistent influence of the early acoustic environment on inferior colliculus neurons  
J. BARTOSOVA, Z. BURES, T. CHUMAK, J. POPELAR & J. SYKA
- B220** Task-dependent neuronal activity in the auditory cortex of nonhuman primates  
M. BROSCHE, M. BABANIN, E. SELEZNEVA, Y. HUANG & H. SCHEICH
- B221** Change in cerebral serotonin activity in tinnitus: an intensity dependence of auditory evoked potentials study  
G. CARTOCCI, G. ATTANASIO, N. LOCURATOLO, C. PAULETTI, F. FATTAPPOSTA & R. FILIPO
- B222** Conditional overexpression of Isl1 results in vestibular and hearing abnormalities in mice  
T. CHUMAK, G. PAVLINKOVA, L. KUTHANOVA, R. BOHUSLAVOVA, D. BUCKIOVA & J. SYKA
- B223** Auditory cortex tonic activity modulates cochlear responses in chinchillas  
A. LEON, D. ELGUEDA, M.A. SILVA, C.M. HAMAME & P.H. DELANO
- B224** Tonotopic map plasticity in mature auditory cortex following passive exposure to behaviorally-irrelevant sounds  
J.J. EGGERMONT
- B225** Reactive oxygen species (ROS) and noise-induced hearing loss (NIHL): time sequence of ROS generation and of functional/morphological changes in the cochlea  
S.L.M. ERAMO, R. ROLES, P. DE BARTOLO, L. PETROSINI, D. TROIANI & A.R. FETONI
- B226** Comparison of task related plasticity in primary and secondary auditory cortex in the ferret  
J.B. FRITZ, S. ATIANI & S.A. SHAMMA
- B227** Multiple critical periods of the developing auditory cortex  
M.N. INSANALLY, H. KOVER, H. KIM, B. ALBANNA & S. BAO

- B228** Acoustic saliency represented in Mismatch Negativity in rat auditory cortex  
T. ISOGUCHI, R. KANZAKI & H. TAKAHASHI
- B229** Expression of TMEM16A/anoctamin 1, A calcium-activated chloride channel in the mouse cochlea  
I.-B. KIM, J.H. JEON, J.W. PARK, J.W. LEE, S.W. JEONG, S.W. YEO & M.-H. CHUN
- B230** The function of TRP channels in drosophila auditory transduction  
B. LEHNERT & R. WILSON
- B231** Plasticity in the neural processing of auditory feedback during self-vocalization following short-term pitch training  
Z. CHEN, F.C.K. WONG, P. LIU, D. HUANG & H. LIU
- B232** Development of the telencephalic song nuclei of male and female blue capped cordon bleus (*Uraeginthus cyanocephalus*)  
M.N. LOBATO, S.M.A. LIMA, N. GEBERZHAN & M. GAHR
- B233** Characterization of glycinergic inhibition to MNTB principal cells  
E. MAYER, M. NELSEN & A. KLUG
- B234** Protein transduction into the otocyst utilizing poly-arginine  
T. MIWA, R. MINODA, M. ISE, E. YUMOTO, T. KAITSUKA & K. TOMIZAWA
- B235** Beneficial effect of vinpocetine treatment on sensorineural hearing loss  
V. NEKRASSOV & M. SITGES
- B236** The prosensory function of notch in the ear is mediated by Sox2  
J. NEVES & F. GIRALDEZ
- B237** The global features and substructure of functional network in the auditory cortex for stream segregation  
T. NODA, R. KANZAKI & H. TAKAHASHI
- B238** Estrogen signaling impacts linear aspects of song coding, determines mutual information and discriminability between coded songs  
R.R. PINAUD & L.A. TREMERE
- B239** Neurogenic vestibular evoked potentials: a new method of non-invasively recording function from the vestibular nervous system  
E.S. PAPATHANASIOU & S.S. PAPACOSTAS
- B240** Diffusion tensor imaging of connections between human auditory and somatosensory cortex  
T. RO, T. ELLMORE & M. BEAUCHAMP
- B241** A comparison of the effect of contralateral acoustic stimulation on cochlear potentials in the awake and anesthetized chinchilla  
C. AEDO, E. TAPIA, E. PAVEZ & L. ROBLES
- B242** Development of the acoustic startle response in normal and noise-exposed rat pups  
N. RYBALKO, T. CHUMAK, J. POPELAR, Z. BURES & J. SYKA
- B243** *FGF10* gene expression patterns in the developing chicken inner ear  
L.O. SÁNCHEZ-GUARDADO, L. RODRÍGUEZ-GALLARDO, L. PUELLES & M. HIDALGO-SANCHEZ
- B244** Identification of injection sites for recombinant pseudorabies virus strains injected into the auditory cortex as retrograde tracers  
É.R. SZABÓ, D. TOMBÁ CZ, Z. BOLDOGKÓI, M. PALKOVITS & Á. DOBOLYI
- B245** Developmental acquisition of auditory responsiveness in zebrafish  
M. TANIMOTO, M. INOUE & Y. ODA
- B246** Activation of group II metabotropic glutamate receptors modulates short-term plasticity of glutamatergic and GABAergic responses through glutamate spillover in the central nucleus of the inferior colliculus  
R. FARAZIFARD & S.H. WU
- B247** The expression of the GABA<sub>B</sub>R1 and GABA<sub>B</sub>R2 receptor subunits in the rat's central auditory structures  
L. JAMAL & H. ZHANG
- B248** Stress and insomnia prevalence in internally displaced persons  
N. DARCHIA, T. BASISHVILI, M. ELIOZISHVILI, L. MAISURADZE, N. LORTKIPANIDZE, N. NACHKEBIA, T. ONIANI & I. GVILIA
- B249** Cholinergic interaction between medial preoptic area and pedunculo pontine tegmentum in the regulation of sleep  
A. JIMENEZ-ANGUIANO, N. GARCIA-CÁRDENAS, E. VÁZQUEZ-SALAZAR, P. POSADAS RODRÍGUEZ & J. VELÁZQUEZ-MOCTEZUMA
- B250** Projections from sleep/arousal-related hypothalamic nuclei to the mesopontine cholinergic complex in the rat  
H.S. LEE
- 
- 12. Motor systems (Mechanisms)**
- 
- B251** Lower brainstem connections of nucleus accumbens of the domestic chick  
E. BÁLINT & A. CSILLAG
- B252** Millisecond-precise timing of sensory information coding in Purkinje cells of rat cerebellum  
R.K. BHUVANASUNDARAM, P. LOMBARDO & E. D'ANGELO
- B253** Non-collateral and collateral projections from the dorsal column nuclei to the cerebellar caudal vermis: double fluorescent labeling in the rabbit  
D. BUKOWSKA, L. ZGUCZYNSKI & B. MIERZEJEWSKA-KRZYZOWSKA



## POSTER PRESENTATION

- B254** When a motor task resembles a linguistic task: the contribution of the N400 ERP effect  
C.L. CALDIROLI & M. BALCONI
- B255** Motor program selection: impact of dynamic changes in extraneuronal milieu  
V. DYAKONOVA, Y. CHISTOPOLSKY, T. DYAKONOVA, I. ZAKHAROV & D. SAKHAROV
- B256** Virtual embodiment elicits a mu rhythm ERD when the virtual hand is threatened  
M. GONZÁLEZ-FRANCO, T.C. PECK & M. SLATER
- B257** Perception of human action-related sounds in altered acoustic environments: a mismatch negativity study  
L. GRISONI, E.F. PAVONE, M. PAZZAGLIA & S.M. AGLIOTI
- B258** Motoneurons are not involved in temporal summation of sensory information  
R. GUZULAITIS, A. ALABURDA, O. RUKSENAS, R. BUISAS & J. HOUNSGAARD
- B259** Effect of low protein diet on Purkinje cells of cerebellum  
G. HASSANZADEH, F. ATTARI, M. AZARNIA, H. HAMDOLLAHZADEH, M. JAVADI & R. GHORBANI<sup>^</sup>
- B260** Influence of vibration on plasticity of hypothalamic-vestibular connection  
K.V. MELKUMYAN, S.H. SARKISYAN & S.M. MINASSIAN
- B261** Mirror neurons and virtual reality: an fMRI study within a complex interactive environment  
C. MODROÑO, G. NAVARRETE, F. MARCANO, A.F. RODRÍGUEZ-HERNÁNDEZ, M. FERRER, Y. MARCELINO, M.A. LEÓN & J.L. GONZÁLEZ-MORA
- B262** Prefrontal motor-monitoring area prior to the EMG onset, as monitored on EEG beta band  
A. MORI, K. OKI, R. KOSHIZAWA, M. TAKAYOSE, T. OZAWA, N.T. MINAKAWA & Y. KITA
- B263** Is there a “motor pallium” in the lamprey?  
F.M. OCAÑA, K. SAITOH, F. RODRÍGUEZ, B. ROBERTSON & S. GRILLNER
- B264** A morphological analysis of sources of input to four types of spinocerebellar tract neurons in the cat lumbar spinal cord  
S. SHAKYA SHRESTHA, B.A. BANNATYNE, E. JANKOWSKA, I. HAMMAR, E. NILSSON, M. WATANABE & D.J. MAXWELL
- B265** Gene transfer into the chick by using Tol2 transposition for studying the nervous system development  
M. SHIBATA & N. SATO
- B266** Development in pathway-selective gene delivery and neuronal ablation with enhanced retrograde transfer of a modified lentiviral vector in primate brain  
K.-I. INOUE, S. KATO, K. KOBAYASHI & M. TAKADA
- B267** Emergence of correlated spontaneous activity in the zebrafish spinal cord  
E. WARP, G. AGARWAL, C. WYART, F. DEL BENE, A.B. ARRENERBERG, H. BAIER & E.Y. ISACOFF
- B268** Organization of projection from the medullary reticular nuclei to the pyramis and uvula in the rabbit cerebellum  
L. ZGUCZYŃSKI, D. BUKOWSKA & B. MIERZEJEWSKA-KRZYŻOWSKA
- B269** Preliminary central nervous system effects of the aqueous seed extract of *Mucuna pruriens* in mice  
R.A. MAGAJI, S.A.I. MALAJIYA, M.G. MAGAJI & B. IBRAHIM
- 
- 13. Learning & memory (Physiology & clinical aspects)**
- 
- B270** Gating of activity propagation in the hippocampus by dentate gyrus synaptic plasticity  
E. ÁLVAREZ, C. QUESADA, V. MAKAROV, O. HERRERAS & S. CANALS
- B271** The processing of spatial and temporal features of sequential movements is associated with distinct changes in activity of two classes of neurons in the primate putamen  
P. APICELLA, M. DEFFAINS & E. LEGALLET
- B272** Juxtacellular recording and labeling in the cerebral cortex of freely moving rodents  
R.G. AVERKIN
- B273** RO4938581, a GABA-A  $\alpha 5$  selective inverse agonist modulates  $\gamma$  oscillations in hippocampal brain slices recorded with high-resolution microelectrode arrays  
I. BALDINOTTI, G. TRUBE, U. HUMBEL, A. HIERLEMANN & F. KNÖFLACH
- B274** The cerebellum and perceptual learning  
C. DELUCA, A. GOLZAR, E. SANTANDREA, E. LO GERFO, J. ESTOCINOVA, A. MORTARO, G. MORETTO, A. FIASCHI, C. TOMASELLO, C. MARIOTTI, M. TINAZZI & L. CHELAZZI
- B275** *c-Fos* induction in the rat amygdala in response to the intake of a glucose-saccharin solution  
J. DELA CRUZ, K. KEST, G. FITZGERALD, T.R. COKE, C. SAMPSON, R. RANALDI, K. TOUZANI, A. SCLAFANI & R.J. BODNAR
- B276** Working memory tasks reflections on electrical activity of the brain  
A.A. ELBAZ, A.M. AMEEN, A. OSSAMA & M.A. ELBARBARY
- B277** Functional role of c-Fos in sound frequency discrimination  
D. GIĘREJ, V. LIUDYNO, M. MIKOSZ, A. NOWAK, M. BLAZEJCZYK, R.K. FILIPKOWSKI, J. JAWORSKI, L. KACZMAREK & E. KNAPSKA



- B278** Theta band encoding of novelty within the dorsal subiculum  
P.T. HUERTA & E.H. CHANG
- B279** The influence of fear conditioning on activation of Guinea pig auditory cortex in the absence of sound  
Y. IDE, M. TAKAHASHI, J. LAUWEREYNS, G. SANDNER, M. TSUKADA & T. AIHARA
- B280** Age-related changes in the hippocampal sharp wave-ripple activity  
D. KOTZADIMITRIOU & C. PAPTHEODORPOULOS
- B281** Dynamic oscillations during contextual fear conditioning  
A.C. KUNICKI, B.S. MACHADO, E. MORYA, S. RIBEIRO & K. SAMESHIMA
- B282** Hippocampal subfield patterns of activity along rostrocaudal axis are differently affected by visual information, spatial novelty and locomotion in open field  
P. KUPTSOV & M.G. PLESKACHEVA
- B283** A new interneuron class in CA1 gates asynchronous inputs to pyramidal cell dendrites  
K.E. LEAO, A. TORT, N. CHETAN, K. KULLANDER & R.N. LEAO
- B284** Reward-contingent sensory responses in paraventricular thalamus of freely-moving rats  
Y. LI & B.I. HYLAND
- B285** Post training sleep rebound disrupts memory retention and sleep wake cycle sequential pattern in rats  
K.M. MOREIRA, D.C. HIPOLIDE, P.A. TIBA, J.R. SATO, S. TUFIK & M.G. OLIVEIRA
- B286** Oscillatory activity predicts learning which predicts the survival of new neurons in the hippocampus  
M.S. NOKIA & T.J. SHORS
- B287** Cholinergic denervation disrupts temporal learning in rodent visual cortex  
E.B. ROACH & M.G. HUSSAIN SHULER
- B288** Electrophysiological characteristics of CA1 pyramidal neurons in medial hippocampus of mouse at early and late phases of spatial learning  
V. SABANOV, I. GANTOIS, E. ISCRU, R. D'HOOGHE & D. BALSCHUN
- B289** Different compartments of apical CA1 dendrites have different plasticity thresholds for expressing synaptic tagging and capture  
S. SAJIKUMAR & M. KORTE
- B290** Storage capacity of phase-coded patterns in sparse neural networks  
S. SCARPETTA, F. GIACCO & A. DE CANDIA
- B291** Reorganization of spatial maps in the hippocampal circuit  
F. STELLA & A. TREVES
- B292** Genetic and correlation analyses of hippocampus-dependent learning in Carousel arena and spontaneous behavior in the open-field test  
A. STUCHLIK, H. HATALOVA, A.N. GRZYB, T. PETRASEK, I. PROKOPOVA, R. OVERALL, J. SILHAVY, V. ZIDEK, G. KEMPERMANN, M. PRAVENEK & K. VALES
- B293** Ouroboros model mapped to brain  
K. THOMSEN
- B294** Reminder-induced recovery of fear memory impaired by inhibition of protein synthesis in mice  
K. ANOKHIN, S. ZWORYKINA, E. AMELCHENKO, D. BEZRYADNOV & S. CHEKHOV
- B295** Stress: is it good for memory persistence?  
D.M. BARROS, G.M. PARFITT, A.K. BARBOSA, R.C. COSTA & A. KOTH
- B296** Effect of desensitization on remote contextual fear memory  
V. CESTARI, S. CANNAS, D. SARAULLI, C. ROSSI-ARNAUD & M. COSTANZI
- B297** Effect of maternal separation on fear conditioning and extinction in adolescent rats  
A. CHOCYK, A. PRZYBOROWSKA, D. DUDYS, I. MAJCHER & K. WEDZONY
- B298** Prior history of attentional contingencies interferes with decision making without necessarily becoming declarative knowledge  
C.M.C. CORRÉA & G.F. XAVIER
- B299** Preconditioning effect of intermittent normobaric hypoxia  
K. DEYKUN, M. POMETLOVÁ, J. MAREŠ & O. RAŠKA
- B300** Effect of one-month diabetic mice on learning and memory retrieval using step-down method  
M. ESLAMI, M. NASIRI
- B301** Glucocorticoids in the insular cortex enhance memory consolidation of different components of the inhibitory avoidance training  
R.V. FORNARI, R. WICHMANN, E. ATUCHA, T. DESPREZ & B. ROOZENDAAL
- B302** A high fat and refined sugar diet effects cognitive function and protein expression in the hippocampus and prefrontal cortex of the rat  
H. FRANCIS, M. PARDEY, P. HAYNES & J. CORNISH
- B303** Influence of dexamethasone on survival and adult behaviour of perinatally stressed Swiss mice  
M. GAJERSKA, A. GŁOWACZ, K. TURLEJSKI & R.L. DJAVADIAN
- B304** Reconsolidation of recognition memory: evidences from a paradigm of retroactive interference  
R. MELANI, T. PIZZORUSSO & N. BERARDI



## POSTER PRESENTATION

- B305** Development of a voltage-sensitive probe system and viral vector for optical visualization of activity in specific neurons  
S. OHARA, S. SATO, K.-I. TSUTSUI & T. IJIMA
- B306** New learning accelerates systems consolidation of a contextual fear memory: effects of pretest muscimol infused into the hippocampus or the cingulate cortex after multiple interposed tasks  
L. DE FREITAS CASSINI, J. HAUBRICH, F. DIEHL, F. SANTANA, L. DE OLIVEIRA ALVARES & J.A. QUILLFELDT
- B307** On the role of dopamine in object recognition memory processing  
J.I. ROSSATO, C.R. FURINI, L.R. BEVILAQUA & M. CAMMAROTA
- B308** Right hemisphere dominance of dentate granule cell activation after exploration of novel environment in wild-type and *iv* mutant mice  
R. SHIGEMOTO, H. AHMED, R. KAWAKAMI & Y. FUKAZAWA
- B309** Effect of androgen on maturation of retention mechanism of extinction memory after conditioned taste aversion learning in mice  
E. SUZUKI, T. KAWABE, M. NISHIYAMA, H. EDA-FUJIWARA, R. SAITO, R. SATOH & T. MIYAMOTO
- B310** Delayed *de novo* protein synthesis is required for spatial memory reconsolidation  
V. VARGAS-LÓPEZ, M. LAMPREA RODRIGUEZ & A. MÚNERA
- B311** Physical exercise prevents cognitive impairment of rats subjected to experimental hyperprolinemia  
A.G. FERREIRA, E.B. SCHERER, M.J. DA CUNHA, F.R. MACHADO, A.A. DA CUNHA, C.A. NETTO & A.T. WYSE
- B312** Novel classes improve memory in elementary school children: evidence of behavioral tagging in humans  
F. BALLARINI, C. MARTINEZ, N. ALEN, D. MONCADA, M. DÍAZ PEREZ & H. VIOLA
- B313** Methylphenidate as cognitive enhancer: absence of effects on long-term memory in healthy subjects  
S. BATISTELA, O.F.A. BUENO, L.J. VAZ & J.C.F. GALDURÓZ
- B314** Women increase their performance trained with decreasing reward conditions on a conceptual learning task  
C. DELGADO, P.H. DÉLANO, C. ALEGRÍA, C. BAHAMONDES, C. CORTÉS & M.L. AYLWIN
- B315** The nature of limitations on visual working memory  
M.Z.U.H. KATSHU
- B316** A fMRI study of motor learning in healthy volunteers: differential neural substrates underlying skill learning and adaptation  
S. LEFEBVRE, L. DRICOT, W. GRADKOWSKI, P. LALOIX & Y. VANDERMEEREN
- B317** Time courses of unique and repeated autobiographical events: an fMRI study  
P. MARTINELLI, A.-D. DEVAUCHELLE, M. SPERDUTI, T. GALLARDA, S. LION, J.F. MEDER, A.S. RIGAUD, M.O. KREBS, C. HOPPENHEIM & P. PIOLINO
- B318** Shift in the response preference during visual discrimination learning  
R. MONTEFUSCO-SIEGMUND, P.E. MALDONADO & M.L. AYLWIN
- B319** Pattern separation associated with reduced asymmetry in Dentate Gyrus activity in Schizophrenia  
M. PALEJA, T.A. GIRARD, K.A. HERDMAN & B.K. CHRISTENSEN
- B320** Encoding and recall of picture associations activates multiple thalamo-cortical networks  
G. PERGOLA, A. RANFT, I. DAUM & B. SUCHAN
- B321** Using 3d virtual environments to assess hippocampal function during spatial navigation - a fMRI study  
A. POMES, B. SPANLANG, J.R. LANDIN, P.S. PINEDA, M. SLATER, E. POMAROL-CLOTET & P. MCKENNA
- B322** Personality-related difference in neural activations underlying the effect of monetary rewards on remembering difficult memories  
Y. SHIGEMUNE, T. TSUKIURA, R. NOUCHI, T. KAMBARA & R. KAWASHIMA
- B323** Motor skill learning correlates to increased REM sleep duration  
M.L. STAVRINO, S. KOLLIA, A. KOUPPARIS, P. ATHANASOPOULOU, G. DAMASKOS & G.K. KOSTOPOULOS
- B324** Effectiveness of neuromodulation on working memory in mild cognitive impairment  
N. SAUNDERS & B. TURMAN
- 
- 15. Neurodegeneration & aging (Oxidative stress, inflammation & other disorders)**
- 
- B325** Neuroprotective effects of erythropoietin in the cuprizone model of demyelination  
N. HAGEMEYER, S. BORETIUS, A. RONNENBERG, S. SPERLING, A. VON STREITBERG, C. OTT, H. WELPINGHUS, J. FRAHM & H. EHRENREICH
- B326** Identification of novel remyelinating agent using an *in vitro* screening system  
R.P. MURPHY, M. PICKERING & K.J. MURPHY
- B327** Leukocyte counts in multiple sclerosis and Alzheimer's disease  
S.J. VAN RENSBURG, M.J. KOTZE, F.C. POTOCNIK, G. HON, M. DE KLERK & R.T. ERASMUS

- B328** Growth-related oncogene-alpha (GRO-alpha) deficit correlates with the failure of remyelination in the *taiep* rat  
G. SOTO-RODRIGUEZ, D. MARTINEZ-FONG, J.R. EGUIBAR, A. UGARTE, J.A. GONZALEZ-BARRIOS, N.G. PAZOS-SALAZAR, E. BRAMBILA, F. MARTINEZ-PEREZ, L. MILLAN-PEREZ-PEÑA & B.A. LEON-CHAVEZ
- B329** Excitatory and inhibitory synapses in the hippocampal formation display alterations in aged mice lacking the *Neil3* gene  
C.E. REGNELL, T. MEDIN, G.A. HILDRESTRAND, O. MOLDESTAD, Y. SEJERSTED, L. LUNA, S. ZANDSTRA KROKEIDE, M. BJØRÅS & L.H. BERGERSEN
- B330** IGF-1 prevents ROS- and p53-mediated cell death in the nervous system *in vivo*  
M. TAMBORINI & K.-H. HERZOG
- B331** Hsp70.1 and related lysosomal factors programming neuronal necrosis  
T. YAMASHIMA
- B332** The neuroprotection of SIRT1 on NMDA-induced excitotoxicity in cultured cortical cell  
X. YANG, H. QIN, R. WANG, P. SI & C. ZHANG
- B333** Differential induction of small heat shock proteins in rat hippocampal neurons after heat shock, hypoxia and oxidative stress  
B. BARTELT-KIRBACH & N. GOLENHOFEN
- B334** Mediation of mitochondrial intrinsic pathways on the molecular mechanism of apoptosis by paraquat: involvement of superoxide anion  
A. CZERNICZYNIC, J. BUSTAMANTE & S. LORES ARNAIZ
- B335** Early *in vivo* secondary damage following partial injury to a central nervous system tract  
J. WELLS, M.R. KILBURN, J.A. SHAW, C.A. BARTLETT, A.R. HARVEY, S.A. DUNLOP & L. FITZGERALD
- B336** Role of oxidative stress in ethanol-induced neurotoxicity of neonatal cerebellum  
M. ELAHDADI SALMANI, I. GOUDARZI, A. RAMAZANI, T. LASHKARBOLUKI, M.T. GHORBANIAN & K. ABRARI
- B337** Accelerated protection of dopaminergic neurons against 6-OHDA cytotoxicity by enhanced activity of neurotrophic factor GDNF and anti-oxidant enzyme GPX-1  
M. GARDANEH, E. GHARIB & Y. PANAH
- B338** Pharmacologic suppression of DFP-induced oxidative injury and dendritic damage by memantine  
R.C. GUPTA, S. MILATOVIC & D. MILATOVIC
- B339** Inhibition of protein kinase C or c-Jun N-terminal kinase attenuates the taxol-induced oxidative neuronal death in murine cortical cultures  
J.-K. KIM, S. HWANG & K.-O. CHAY
- B340** LiuWei dihuang wan and its main component paeonol attenuate neuronal damage induced by inflammation and oxidative stress in rat primary microglia and cortical neurons  
Y.-C. LO & Y.-T. TSENG
- B341** Effect of quercetin and sesamin against high glucose-induced oxidative stress and apoptosis in rat dopaminergic neurons  
J. BOURNIVAL, J. RENAUD, M.-A. FRANCOEUR & M.-G. MARTINOLI
- B342** Cell type-specific expression and nuclear localization of Sirt6 in the rat CNS  
P. MEMAR ARDESTANI & F. LIANG
- B343** 3',4',7-trihydroxyflavone attenuates hydrogen peroxide-induced neuronal cell death by the defense of oxidative stress pathways  
S.-H. KWON, S.-I. HONG, Y.-H. JUNG, K.-W. LEE, I.-J. YOU, L.T. NGUYEN, J.-A. KIM, M.-J. KIM, S.-Y. LEE & C.-G. JANG
- B344** Protective effect of rutin against intracerebral streptozotocin induced memory impairment in rat  
H. JAVED, M.M. KHAN, A. KHAN, K. VAIBHAV, M.E. AHMAD, A. AHMAD, S.S. RAZA, R. TABASSUM & F. ISLAM
- B345** Interleukin 12 and Interleukin 18 gene administration induces leukocyte recruitment and activation of microglia in the brain  
M.C. RODRIGUEZ-GALAN, E.A. GAVIGLIO, J.A. SORIA, B. BARRIOS, D.S. ARROYO & P. IRIBARREN
- B346** Lymphocytes exhibit neuroprotection in Kainate-induced cell death via astrocytes activation and inhibition of MAP kinase signalling pathway  
R. SHRESTHA, O. MILLINGTON, J. BREWER & T.J. BUSHELL
- B347** Ethaneβ-sultam, a taurine prodrug, reduces the inflammatory response evoked by 'binge drinking' both *in vivo* and *in vitro*  
C. STEFANINI, M.A. COLIVICCHI, C. BALLINI, M. PAGE, P. DE WITTE, D.T. DEXTER, R.J. WARD & L. DELLA CORTE
- B348** Chronic neuroinflammation disrupts FKN-CX3CR1 signaling in the hippocampus  
J.M. MORGANTI, K. BELARBI, C. ARELLANO, C. GEMMA, P.C. BICKFORD & S. ROSI
- B349** The synthesis of TGFβs 1 and 2 is mediated through Wnt signaling pathway in rat cortical astrocytes  
S. BOZORGMEHR, A. PARVANEH TAFRESHI, S. ABBASI & B. ZEYNALI
- B350** Brain injury markers and autoantibodies to functionally significant brain proteins in pathogenesis and prognosis of brain trauma in children  
E.G. SOROKINA, J.B. SEMENOVA, O.V. KARASEVA, O.M. VOLPINA, V.P. REUTOV, O.K. GRANSTREM, V.G. PINELIS & L.M. ROSHAL



## POSTER PRESENTATION

- B351** Traumatic brain injury complicated by sepsis is associated with modification of the amount and the structure of sialic acids  
C. ADEMBRI, E. SGAMBATI, V. SELMI, L. VITALI, A. PACINI, L. BONACCINI, L. DI CESARE MANNELLI & A.R. DE GAUDIO
- B352** Use of fluorochrome-labeled inhibitors of caspases to detect neuronal apoptosis in whole-mounted lamprey brain after spinal cord injury  
A. BARREIRO-IGLESIAS, M.E. SELZER & M.I. SHIFMAN
- B353** Stabilization of mutant rhodopsin in treatment of retinal degeneration in Retinitis pigmentosa  
F. BALEM, N. YANAMALA, P.S. AKAMINE, G.L. IOSHIMOTO, B.V. NAGY, D.F. VENTURA, D.E. HAMASSAKI & J. KLEIN-SEETHARAMAN
- B354** Cognition on dialysis patients  
N. STOICEA, D. SCHARRE, D. SPETIE, A. NARAYANAN, A. GUSTI & S. GUSTI
- B355** Erythropoietin and carbamylated-erythropoietin effects upon neuronal and erythropoietic systems. Mechanisms and receptors involved  
M.E. CHAMORRO, S.D. WENKER, D.M. VOTA, D.C. VITTORI & A.B. NESSE
- B356** Cellular localization of calpastatin plice variants  
J. GEDDES, A. JOSHI, V. BONDADA, A. MAAMOUN, D. LOU, S. WILLIAMS & C. ROGERS
- B357** Neuropeptide Y is neuroprotective against methamphetamine-induced toxicity in hippocampal organotypic slice cultures  
J. GONÇALVES, C.F. RIBEIRO, J.O. MALVA & A.P. SILVA
- B358** Neuroprotective effects of the 17 $\beta$ -Estradiol against ethanol-induced neurotoxicity  
I. GOUDARZI, A. RAMEZANI, T. LASHKARBOLUKI, M.T. GHORBANIAN, K. ABRARI & M. ELAHDADI SALMANI
- B359** Agonists of group-III metabotropic glutamate receptors (mGluR III) attenuate staurosporine-induced necrotic, but not apoptotic neuronal cell damage  
D. JANTAS, A. GREDA, A. PILC & W. LASON
- B360** Microfluidic in-vitro model of blood brain barrier  
S. KIM, H. LEE, J. YEON, T. MOORE, M. CHUNG, Y. CHUNG & N.L. JEON
- B361** Gold nanoparticles (AuNPs) cross the BBB and induce cytotoxicity in SH-SY5Y cells  
E. VITALE, R. IMPERATORE, I. FERRANDINO, A. LONGO, G. CAROTENUTO, S. DE NICOLA & L. CRISTINO
- B362** Two-dimensional mapping of intracellular elements in Purkinje cells of Lurcher mutants  
K. KRANDA, V. HAVRANEK, Z. PUKRHARTOVA & F. VOZEH
- B363** Effects of the extract from wolfberry on the survival of retinal ganglion cells after optic nerve transection  
H.Y. LI, R.C. CHANG & K.F. SO
- B364** Withdrawal of habituated wheel running decreases cell proliferation and the number of immature neuron in the mice hippocampus through the BDNF-independent pathway  
T. NISHIJIMA, T. ITAGAKI, S. AMEMIYA, N. KUBOTA, C. MOTOKI & I. KITA
- B365** The phycotoxin okadaic acid induces toxicity in the CNS: evidence from isolated brain cells and organotypic cultures  
A. NOVELLI, A. PÉREZ-GÓMEZ, A. FERRERO-GUTIÉRREZ, A.R. TASKER & M.T. FERNÁNDEZ-SÁNCHEZ
- B366** Expression of the 2F7 epitope in the rat embryo and adult brain  
I. O'BRIEN, A. SULLIVAN, Y. NOLAN & A. TOULOUSE
- B367** The NeuN labeling-pattern in avian central nervous system  
M.F. PASSETTO, R.F. SANTANA, A.L.B. CABRAL, F.C.S. MENETTI & C.A.B. TOLEDO
- B368** Neuroprotection by estradiol reverts neurodegenerative markers in a perinatal asphyxia model  
G.E. SARACENO, M.V. AYALA, M.S. BADORREY, M.L. AÓN-BERTOLINO, J.I. ROMERO, R.A. KOLLIKER, L.M. GARCÍA-SEGURA & F. CAPANI
- B369** Chronic pain-emotional stress-induced neurodegeneration  
A. TISHKINA, I.P. LEVSHINA, N.V. PASSIKOVA, M.Y. STEPANICHEV & N.V. GULYAEVA
- B370** Glutamate stimulation induces a two-phase cofilin rod formation mediated by both NMDA and non-NMDA receptors in cultured hippocampal neurons  
Y. WANG, B. CHEN, L. CHEN, M. ZHOU & M. JIANG
- B371** Transgenic and cellular models of neurodegeneration associated with protein aggregation in the studies of potential neuroprotectors  
T.A. SHELKOVNIKOVA, I.V. KHRITANKOVA, A.A. USTYUGOV, V.L. BUCHMAN, N.N. NINKINA & S.O. BACHURIN
- B372** Large vessel atherosclerosis exacerbates elevation in cerebral glutamate concentrations in metabolic syndrome  
A.P. HALEY, M.M. GONZALES, D.E. EAGAN, T. TARUMI, M. VAGHASIA, S. PANDYA & H. TANAKA
- B373** Caffeine potentiation of 3,4-methylenedioxymethamphetamine (MDMA) toxicity: role of age  
L. FRAU, A.S. KHAIRNAR, S. FENU & M. MORELLI

- B374** Chronic nicotine exposure enhances cholinergic vasodilation in the cerebral cortex induced by stimulation of the nucleus basalis of Meynert in rats  
S. UCHIDA, H. HOTTA, H. MISAWA & K. KAWASHIMA
- B375** Mitochondria as the target for neuroprotection  
E. SHEVTSOVA, D. VINOGRADOVA, E. KIREEVA & S. BACHURIN
- B376** Mechanisms of LMO4-Mediated regulation of neuronal calcium dynamics and synaptic plasticity  
Z. QIN, X. ZHOU, K. LEE, J.-C. BÉRIQUE & H.-H. CHEN
- B377** Mitochondrial DNA toxicity compromises mitochondrial function in neurons, causing synaptic abnormalities  
K.H. LAURITZEN, C. CHENG, A. KLUNGLAND & L.H. BERGERSEN
- B378** Novel neuroprotective action of copper complexes  
A.R. WHITE, L. BICA, C. DUNCAN, K. PRICE, K. BARNHAM, P. CROUCH & P. DONNELLY
- B379** Oestrogen regulates mitochondrial respiratory chain enzyme transcription in the mouse spinal cord  
S. JOHANN, D. MICHAEL, C. BEYER & S. ARNOLD
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- 16. Neurological disorders (Epilepsy)**
- B380** Loss of AMPA receptor GluA4 subunits at corticothalamic synapses in the reticular thalamic nucleus of the epileptic stargazer mouse  
O. SHEVTSOVA & B. LEITCH
- B381** Acute administration of Tacrolimus after traumatic brain injury ameliorates post-traumatic epilepsy in a rat model  
J.N. CAMPBELL, B. SINGH & S.B. CHURN
- B382** ATP-sensitive potassium channels contribute to the time-dependent alteration in the pentylene-tetrazole-induced seizure threshold in diabetic mice  
A. KARIMOLLAH, M. GHASEMI & S. HAMED
- B383** Anticonvulsant activity of *Eclipta alba* using experimental models of epilepsy  
M.F. SHAIKH & S. SATHAYE
- B384** MRI study of early and late consequences of prolonged seizures and effects of ginsenosides of ginseng on lithium-pilocarpine model of status epilepticus  
E.M. SULEYMANOVA, M.V. GULYAEV & N.E. CHEPURNOVA
- B385** Changes in hippocampal connexin 36 mRNA and protein levels during acquisition of seizures in the kindling model of epileptogenesis  
S. BEHESHTI, M. SAYYAH, M. GOLKAR, A. YAZDI, J. BABAIE, H. SEPEHRI & B. VAZIRI
- B386** Mitochondrial function of JNK isoforms during status epilepticus-induced neuronal damage  
G. SPIGOLON, Y. ZHAO, A. VERCELLI, B. CHRISTOPHE & T. HERDEGEN
- B387** Hippocampal structural neuroprotection and antiepileptogenic effects of hypoxic preconditioning in a model of status Epilepticus  
R.A. DO VAL DA SILVA, O.Y. GALVIS-ALONSO, R.C. SCANDIUZZI, M. BASSI, M.L. GLASS, R.N. ROMCY-PEREIRA & J.P. LEITE
- B388** Effect of seizures induced by 4-aminopyridine on EAAT-3 and GAT-1 expression in dentate gyrus and CA1 hippocampus  
L. MEDINA-CEJA & F. SANDOVAL-GARCÍA
- B389** Differential expression of proteins in the hippocampus of patients with temporal lobe epilepsy  
D.S. PERSIKE, M.L. DE LIMA, R.P. AMORIM, E.M.T. YACUBIAN, R. CENTENO, M. CANZIAN & M.J.S. FERNANDES
- B390** Structural and functional MRI investigation of the brain of old epileptic rats  
A. ANDRIOLI, P. MARZOLA, E. NICOLATO & M. BENTIVOGLIO
- B391** Amygdala kindling causes robust alterations in the intrinsic electrophysiological properties of hippocampal CA1 pyramidal neurons in brain slices  
Z. GHOTBEDDIN, J. MIRNAJAFIZADEH, S. SEMNANIAN, M. JANAHMADI & M. HAGHANI
- B392** Pentoxifylline reverses rat behavioral, metabolic and neurochemical changes after pilocarpine-induced seizures  
G. VIANA, R. SIQUEIRA, K.R. NEVES, D. GONÇALVES, A. VIANA & G. MATOS
- B393** Effect of caloric restriction on hippocampal BDNF and NT3 expression and spontaneous recurrent seizures after 1 hour of status epilepticus  
S. HAFIZI, M. KARIMI-RAD, M. ABBASI, A.P. TAFRESHI & M. RAZA
- B394** Epigenetic regulation of Matrix Metalloproteinases 9 expression during epileptogenesis  
K. ZYBURA-BRODA, R. AMBORSKA, K. LESZEK & M. RYLSKI
- B395** Evaluation of the anticonvulsant activity of the alcoholic extract of *Humulus lupulus L.* against seizures induced by pentylene-tetrazole and electroconvulsive shock in mice  
M. GANJKHANI, A. FALLAH, M.R. JAFARI & M. KAMALINEJAD
- B396** Inhibition of neural nitric oxide synthase potentiates seizures induced by homocysteine in adult rats  
D. HRNCIC, A. RASIC - MARKOVIC, V. SUSIC, D. DJURIC & O. STANOJLOVIC
- B397** Anticonvulsant and neuroprotective effects of *Pimpinella anisum* in rat brain  
F. KARIMZADEH, M. HOSSEINI, H. ALAVI, G.R. HASSANZADEH, M. BAYAT, M. JAFARYAN & A. GORJI
- B398** Enhancement of theta oscillations in the medial septal area of the epileptic brain *in vivo* and *in vitro*  
V.V. SINELNIKOVA, A.E. MALKOV, I.Y. POPOVA, M.V. BUTUZOVA & V.F. KICHIGINA



## POSTER PRESENTATION

- B399** **Imaging investigation of brain edema after middle cerebral artery occlusion in agmatine-treated rats: a functional magnetic resonance approach**  
M.-T. LIN, Y.-C. HUANG, T.-J. CHUANG, J.-W. LIN, M.-W. CHANG, C.-C. WANG, C.-Z. YANG, C.-C. HSU, C.-P. CHANG, C.-C. CHIO & J.-R. KUO
- B400** **Astrocytes and GABAergic fast-spiking interneurons signalling in focal seizures**  
G. LOSI, M. CAMMAROTA & G. CARMIGNOTO
- B401** **Don't mess with your biological clock: seizure aggravation after the phase shift**  
M.K. SMYK, A.M. COENEN, M.H. LEWANDOWSKI & G. VAN LUIJTELAAR
- B402** **EEG dynamic of the septum and linked structures during pentylentetrazol kindling**  
E. MUGANTSEVA & V. KITCHIGINA
- B403** **TSA-amplified *in situ* hybridization shows dendritic localization of exon IV 5' UTR containing BDNF transcripts in different epileptogenesis models**  
D.A. LOPEZ-ESPINDOLA & E.E. ALIAGA
- B404** **The enduring effects of early-life stress on limbic epileptogenesis are mediated by HPA axis hyper-reactivity**  
A.S. KOE, M.R. SALZBERG, T.J. O'BRIEN, M.J. MORRIS & N.C. JONES
- B405** **Kallikrein 6 (*KLK6*) is involved in temporal lobe epilepsy**  
P.S.R. SIMÕES, S.R. PEROSA, G.A. ARGANARAZ, E.T. YACUBIAN, R. CENTENO, H. CARRETE, M. CANZIAN, D. AMADO, J.A. SILVA JR, E.A. CAVALHEIRO & M.D.G. NAFFAH-MAZZACORATTI
- B406** **The pilocarpine model in NMRI mice: histological, video-EEG and pharmacokinetic characterization**  
M. MAZZUFERI, G. KUMAR, C. ROSPO & R.M. KAMINSKI
- B407** **Characterization of a focal epilepsy model in the mouse based on intracortical administration of Tetanus neurotoxin**  
E. VANNINI, M. MAINARDI, M. PIETRASANTA, O. ROSSETTO & M. CALEO
- B408** **Cannabinoid 1 receptor as therapeutic target in chronic epilepsy**  
R. DI MAIO, J. CANNON, L. MONTERO & J.T. GREENAMYRE
- B409** **Effects of R-verapamil on seizure susceptibility and glutamate and GABA release in a model of phenytoin-resistant seizures**  
L.L. ROCHA, H. LUNA-MUNGUÍA & S. OROZCO-SUAREZ
- B410** **Does the calcium sensing receptor have a role in neuronal function and idiopathic epilepsy?**  
S. GIBBS, L. SADLEIR, D.E.C. COLE, G.N. HENDY & E. WILTSHIRE
- B411** **Electrical amygdala kindling model and SUDEP: cardiovascular aspects**  
A.P. PANSANI, D.B. COLUGNATI, G.H.M. SCHOORLEMMER, E.Y.D.F. SONODA, E.A. CAVALHEIRO, S.L. CRAVO & F.A. SCORZA
- B412** **Neuroethological and neuroanatomical evidences of altered endogenous anticonvulsant circuitry in the Wistar audiogenic rats (WAR) strain**  
G.G. PODOLSKY-GONDIM, S.S. MARRONI, T.L. PINHEIRO, J.A.C. OLIVEIRA, F. ROSSETTI & N. GARCIA-CAIRASCO
- B413** **Consistency between the effects of carbamazepine, phenytoin, oxcarbazepine, lamotrigine, topiramate, valproic acid, levetiracetam and vinpocetine on 4-aminopyridine-induced epileptiform activity in vivo and cerebral presynaptic ion channel mediated responses in vitro**  
M. SITGES, B.I. ALDANA, L.M. CHIU & V. NEKRASSOV
- B414** **Reduced susceptibility to seizures and increased dendritic targeting and translation of BDNF and TrkB mRNAs in FXR2 KO mice**  
A. BUZZI, P. PILO BOYL, G. BAJ, E. TONGIORGI, M. SIMONATO & C. BAGNI
- B415** **Chronic lamotrigine treatment on seizure and anxiety-/depression-like behaviors of the rat with spontaneous absence epilepsy**  
F.-Z. SHAW, H.-W. LEE & H.-Y. HUANG
- B416** **Anticonvulsant activity of *Eucalyptus globulus* in laboratory animals**  
U. EL-LITHY
- B417** **Myo-inositol and scyllo-inositol as anticonvulsants on pentylentetrazol induced seizures**  
E. MIKAUTADZE, M. NOZADZE, E. LEPSVERIDZE, E. MIKELADZE, N. KUCHIASHVILI, T. KIGURADZE & R. SOLOMONIA
- B418** **Experimental febrile seizures cause sensitization of hippocampal dentate granule GABA<sub>A</sub> receptors**  
A. SWIJSEN, G. HOOGLAND, D. JANSSEN & J.-M. RIGO
- B419** **Diffusion barriers created by the extracellular matrix and glia in human dysplastic cortex**  
L. VARGOVA, A. HOMOLA, M. CICANIC, J. ZAMECNIK, P. MARUSIC, P. KRSEK & E. SYKOVA

- B420** Anticonvulsant and antiepileptogenic properties of *crinum purpurascens* leaves in mice  
D.N. MIREILLE SYLVIANE, T. CHRISTOPHER, F. CHRISTIAN, T. EDWIDGE, A. ALBERT, A. TAZOACHA & M. FELICITE
- B421** Influence of minocycline and valproic acid on development of epilepsy induced by intracerebral hemorrhage  
K. MAJAK, P. KOWIANSKI, B. DOMARADZKA-PYTEL & J. MORYS
- B422** Antiabsence effects of safranal in acute experimental seizure models: EEG and autoradiography  
H.R. SADEGHNIA, M.A. CORTEZ, D. LIU & H. HOSSEINZADEH
- B423** The development of epilepsy results in alterations in HCN channel expression and cardiac function in genetic and acquired rat models: a mechanism for SUDEP?  
K.L. POWELL, C. NG LI MIN, J.T. KENNARD, V. URMALIYA, E. OZTURK, N.C. JONES, G. DESZI, I. MEGATIA, C.A. REID, D. PINAULT, P. WHITE & T.J. O'BRIEN
- B424** MEMRI intensity and c-fos expression after short duration of pilocarpine-induced status epilepticus (SE)  
J.M. MALHEIROS, R.S. POLLI, A. TANNÚS, E. VIDOTO, M. MARTINS & L. COVOLAN
- B425** Fish oil decreases methylmalonic acid-induced seizures  
C.R.R. BANDERÓ, M.G.S.S. SALVADORI, A.T. GOMES, N.D. RI, A.F. FURIAN, M.S. OLIVEIRA, L.M. RAMBO, F.A. SCORZA, R.M. CYSNEIROS, T. EMANUELLI & C.F. MELLO
- B426** Componentes of renin-angiotensin system is modified in the hippocampus of rats submitted to pilocarpine model of epilepsy  
T.L.F. GOUVEIA, M.I.B. FRANGIOTTI, J.M. BRITO, E.F. CASTRO NETO, M.M. SAKATA, A.C. FEBBA, D.E. CASARINI, E.A. CAVALHEIRO, J.A. SILVA JR, R.C. ARAÚJO, D. AMADO & M.G. NAFFAH-MAZZACORATTI
- B427** Pilocarpine model in imunodeficient mice: neurochemical, electroencephalographic and histological changes  
M.J.D.S. FERNANDES, T. VIGNOLI, S.G. MASSIRONI, R.D.C.S. COIMBRA, M.D.G.N. MAZZACORATTI, E.F. CASTRO NETO & D.S. PERSIKE
- B428** Unique anticonvulsant profile of triheptanoin in acute and chronic mouse epilepsy models  
N.K. THOMAS, S. WILLIS, T.H. KIM, C.A. REID, S. PETROU, A. MATTHIAS & K. BORGES
- B429** *In vitro* predictors of severe hypersensitivity reactions to aromatic anti-epilepsy drugs  
P.A.L.S. HWANG & M. NEUMAN
- B430** Modulation of endocannabinoid transport blocks Kainic acid-induced status epilepticus  
L. SHUBINA & V.F. KITCHIGINA
- B431** Fast-spiking inhibitory interneurons govern focal seizure propagation  
M. CAMMAROTA, G. LOSI & G. CARMIGNOTO
- B432** Changes of epileptiform discharges after activation of locus coeruleus  
E. SARALIDZE, L. KHUCHUA & T. IOSELIANI
- B433** Tissue non-specific alkaline phosphatase in the human neocortex  
O. KANTOR, I. BRUN -HEATH, M. ERMONVAL, J. XIAO, M. PALKOVITS, G. KOVACS, T. DOCZI, T. GLASZ, G. BAKSA, M. ASHABER, P.O. COURAUD, E. MORNET, L. NÉGYESSY & C. FONTA
- B434** Biperiden as a disease modifying agent for temporal lobe epilepsy  
S. BITTENCOURT, E. FERRAZOLI, M.F. VALENTE, B. LONGO, S. ROMARIZ, C. MACEDO, B. BRITO, M. AARAO, M. MIRANDA, A. ALMEIDA & L.E. MELLO
- B435** Effects of temporal lobe epilepsy in the quality of sexual function in women  
M. PINTO, I. SILVA, V. ALTMANN, Ñ. ALONSO, K. LIN, A. JACKOWSKI, R. CENTENO, H. CARRETE, E. YACUBIAN, M.D.G. NAFFAH-MAZZACORATTI, E. CAVALHEIRO & D. AMADO
- B436** Effect of seizures on the auditory brainstem response in genetically seizure-prone rats  
A.S. POSPELOV
- B437** Reduction in AMPA receptor GluA4 subunit expression at synapses in inhibitory but not excitatory thalamic neurons of the epileptic stargazer mouse  
B. LEITCH & O. SHEVTSOVA
- B438** Neocortical malformations of medically intractable temporal lobe epilepsy: morphological study of 60 patients  
J. VILLEDA, M.A. ALONSO VANEGAS, L.L. ROCHA & S. SUÁREZ OROZCO
- B439** Distribution and role of purinergic receptors in the hippocampus during and after pilocarpine-induced status epilepticus  
S.S. TAY, Y. LI, Y.C. TANG, D.L. MA, S.T. DHEEN & F.R. TANG
- B440** Could basal ganglia input structures control ongoing focal motor seizures? Results of Subthalamic nucleus DBS and further plan in a primate model  
S.V. PRABHU, B. PIALLAT, S. MICHALLAT, A. SHERDIL, O. DAVID & S. CHABARDÈS



## POSTER PRESENTATION

- B441** Temporal characterization of c-Fos activation and neuronal death in the hippocampus after pilocarpine induced status epilepticus in marmosets (*Callithrix jacchus*)  
M.M. BLANCO, K.O. GARCIA, J.C. PONTES, S.M. CININI, C.S. DA SILVA, B.M. LONGO & L.E. MELLO
- B442** *In vivo* two-photon imaging of paroxysmal depolarizing shifts: role of astrocytes and fast spiking interneurons  
M. BRONDI, S. SULIS-SATO, G. DE VITO & G.M. RATTO
- B443** Purinergic modulation of high-affinity GABA and glutamate uptake by synaptic plasma membrane vesicles of the human neocortex  
A.R. BARBOSA, S. GUERRA-GOMES, F. FERREIRINHA, M.G.B. LOBO, P. CORREIA-DE-SÁ & J.M. CORDEIRO
- B444** Expression and possible roles of aquaporin 9 in hippocampal CA1 cells of epileptic rats  
F.C. TESCAROLLO & L. COVOLAN
- B445** In epileptic seizures, nitric oxide may regulate glutamate brain levels by modulating glutamate dehydrogenase activity  
L.A. VEGA RASGADO, E. MARTÍNEZ REYES & F. VEGA-DÍAZ
- B446** Unbalanced adenosine A<sub>1</sub>/A<sub>2A</sub> receptors modulation of [Ca<sup>2+</sup>]<sub>i</sub> influx in the hippocampus and neocortex of patients with mesial temporal lobe epilepsy (MTLE)  
C. TEIXEIRA, S. GUERRA-GOMES, F. FERREIRINHA, M.G.B. LOBO, J.M. CORDEIRO & P. CORREIA-DE-SÁ
- B447** Interictal 99mTc-HMPAO-SPECT and 18F-FDG-PET in detection of epileptic foci  
A. KAPRELYAN, D. MINCHEV, A. KLISSAROVA & P. BOCHEV
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- 17. Psychiatric & behavioural disorders (Schizophrenia, psychostimulants & drugs of abuse)**
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- B448** Dysbindin, a candidate gene for schizophrenia, is expressed in retinal Müller glia cells  
A. MATTEUCCI, L. GADDINI, G. MACCHIA, T.C. PETRUCCI, P. MACIOCE, F. MALCHIODI-ALBEDI & M. CECCARINI
- B449** Chronic psychosocial stress during adolescence in the neuregulin 1 heterozygous mutant mouse: a putative model of gene × environment interactions in schizophrenia  
L. DESBONNET, C. O'TUATHAIGH, G. CLARKE, E. PETIT, C. O'LEARY, N. CLARKE, J. CRYAN, T. DINAN & J.L. WADDINGTON
- B450** A CAG repeat polymorphism of KCNN3 predicts SK3 channel function and cognitive performance in schizophrenia  
H.M. EHRENREICH
- B451** Trace amine associated receptor 1 (TAAR1) modulates D2 dopamine receptor-related behavior and striatal signaling  
S. ESPINOZA, F. MANAGÒ, M. MESSA, T.D. SOTNIKOVA, M.G. CARON & R.R. GAINETDINOV
- B452** Immunohistochemical study of GABAergic neurons in the hippocampal formation of genetically modified animal model of schizophrenia  
M. HAGIKURA, H. SEKIGUCHI, S. IRITANI, C. HABUCHI, Y. TORII, K. KURODA, K. KAIBUCHI & N. OZAKI
- B453** First potent and selective trace amine-associated receptor 1 (TAAR1) agonist alters monoamine-mediated neurotransmission and behavior  
A. HARMEIER, F.G. REVEL, J.-L. MOREAU, A. BRADAIA, R.D. NORCROSS, C.A. MEYER, J.G. WETTSTEIN & M.C. HOENER
- B454** A pilot study of the care program approach in Japan (CPA-J) for patients with organic psychosis presenting cognitive disorders  
M. HIROZANE, N. HIRABAYASHI, Y. MIZUNO, Y. NAMIHISA, T. SUGIYAMA, T. TAKASHIMA & M. SAKATA
- B455** Immunohistochemical study of VMAT 2 in the hippocampal formation of animal models of schizophrenia  
S. IRITANI, H. SEKIGUCHI, C. HABUCHI, Y. TORII, T. NABESHIMA, K. KAIBUCHI & N. OZAKI
- B456** Neurochemical studies on the different effects of galantamine and donepezil on isolation rearing-induced deficits of prepulse inhibition in mice  
T. MATSUDA, K. KODA, Y. OTA, Y. AGO & K. TAKUMA
- B457** Interactions between BACE/NRG1 and glutamatergic pathways in the development of schizophrenia-like endophenotypes  
T. MELNIKOVA, E. CHO, D. LEE & A. SAVONENKO
- B458** Antipsychotic potential of antioxidative agents in immune/inflammatory models for schizophrenia  
M. MIZUNO, H. SOTOYAMA & H. NAWA
- B459** Novel PDE10A ligand as a PET probe for imaging psychiatric disorders: pharmacological and toxicological evaluation  
S. ERDMANN, F. SIEGERT, G. SCHWAN, P. BRUST, N. STRÄTER, R. ALTENBURGER, D. BRIEL & K. NIEBER



- B460** Activities of glucose-6-phosphate and lactate dehydrogenase hydrogenase in ketamine induced N-methyl-D-phosphate dehydrogenase hypofunction model of schizophrenia in prefrontal cortex of rats  
O.O. OWOLABI, G.O. AFOLAYAN, A. OBEMBE & A.E. CAXTON-MARTINS
- B461** Initial phenotypic studies on novel mutants with targeted deletion of the schizophrenia risk gene DTNBP1 (dysbindin)  
E. PETIT, C. O'TUATHAIGH, B. KIRBY, L. DESBONNET, C. NIAHM, O. TIGHE, C. O'LEARY, J. JOEL, A. SHAW, S. SHEARDOWN, A.D. MORRISON, S. WILSON, E. SHAPLAND, J.N. KEW & J. WADDINGTON
- B462** Effect of 3 $\alpha$ 5 $\beta$ pregnanolone glutamate on schizophrenia like behavior  
K. VALES, H. KRISTINA, L. RAMBOUSEK, J. SVOBODA, V. BUBENIKOVA, H. CHODOUNSKA, L. VYKLICKY & A. STUCHLIK
- B463** Aging effects on morphologies of the superior temporal gyrus and its sub-region in schizophrenia: a postmortem study  
Y. TORII, S. IRITANI, H. SEKIGUCHI, C. HABUCHI, M. HAGIKURA, T. ARAI, K. IKEDA & N. OZAKI
- B464** Some CNS depressant effects of *Crinum zeylanicum* Linn (Amaryllidaceae) in mice  
A.Y. TIJANI, O.A. SALAWU, J.A. ANUKA & I.M. HUSSAINI
- B465** Common variations in the Methyl-CpG-Binding-Protein 2 gene modulate autistic traits in a schizophrenic population  
M. TANTRA, A. KÄSTNER, C.B. BODDA, S. GRUBE, K. RADYUSHKIN, A. RONNENBERG, A. MANNAN & H. EHRENREICH
- B466** Role of Trace Amine Associated Receptor 1 (TAAR1) in animal models of dopamine-related brain disorders  
T. SOTNIKOVA, S. ESPINOZA & R. GAINETDINOV
- B467** Effects of microinjections of apomorphine and haloperidol into the inferior colliculus on the prepulse inhibition of the acoustic startle reflex in rats  
R.C.B. SILVA, S.Y. SATAKE & K.Y. YAMADA
- B468** Impairment of the tyrosine hydroxylase neuronal network in the orbitofrontal cortex of a genetically-modified mouse model of schizophrenia  
H. SEKIGUCHI, S. IRITANI, C. HABUCHI, Y. TORII, K. KURODA, K. KAIBUCHI & N. OZAKI
- B469** Preclinical study of the stimulant effect induced by coca-paste seized samples, a smokable cocaine with a widespread use in Latin America  
C. SCORZA, X. LÓPEZ-HILL, J.P. PRIETO, M.N. MEIKLE, J. URBANAVICIUS, E. UMPIÉRREZ, J.A. ABIN-CARRIQUIRY & G. PRUNELL
- B470** Reserpine reverts dopaminergic tolerance induced by chronic cocaine treatment in rats  
H.R. SILVA, S.A. BARBOSA, C. LOPES & C.A. TIEPPO
- B471** The drug-seeking behavior of adult male rats is not increased by prenatal methamphetamine exposure  
R. SLAMBEROVA, B. SCHUTOVA, L. HRUBA & M. POMETLOVA
- B472** Switch from positive to neutral living environments increases vulnerability to cocaine  
N. THIRIET, J. NADER, C. CHAUVET, R. EL RAWAS, L. FAVOT, M. JABER & M. SOLINAS
- B473** Rimonabant repeated treatment inhibits c-fos expression in cocaine-sensitized mice  
E.A.V. MARINHO, T.S. YOKOYAMA, A.J. OLIVEIRA-LIMA, R. SANTOS, A.W. HOLLAIS, L. RIBEIRO, B.M. LONGO & R. FRUSSA-FILHO
- B474** Retinoic acid signaling and drug addiction: methamphetamine-mediated rewarding behavior is enhanced in RAR $\beta$  null mutant mice  
Y.-Y. LIN, P. CHAMBON & F.-C. LIU
- B475** Effect of oxytocin administration in the nucleus accumbens core or the subthalamic nucleus on methamphetamine-induced reward  
S.J. BARACZ, M.C. PARDEY, G.E. HUNT, I.S. MCGREGOR & J.L. CORNISH
- B476** Specific and nonspecific bilateral lesioning of the Caudate Nucleus alter differently the acute and chronic effects of Methylphenidate administration  
C. CLAUSSEN, S. CHONG & N. DAFNY
- B477** Behavioral effects of fatty acid amide hydrolase inhibition on the morphine withdrawal symptoms  
S. SHAHIDI, P. HASANEIN, M. MAHMOODI & A. KOMAKI
- B478** Noradrenergic transmission within the central nucleus of the amygdala contributes to the anxiogenic effects of self-administered cocaine  
J.M. WENZEL, Z.-I. SU, Z.M. HABER & A. ETTEMBERG
- B479** Acupuncture reduces the reinforcing effects of morphine: the mediation of GABA receptors  
C.H. YANG, B.H. LEE, J.H. LEE, J.Y. LEE, S.A. KIM, D.H. KIM, E.M. AHN & S.S. YOON



## POSTER PRESENTATION

- B480** Reinstatement of nicotine-seeking behavior in rats: effects of nicotinic receptor partial agonist cytisine  
E.V. RADCHENKO, O.A. DRAVOLINA & A.Y. BESPALOV
- B481** Effects of cannabidiol on mCPP-induced increase in marble burying behaviour  
M. NARDO, P.C. CASAROTTO & F.S. GUIMARÃES
- B482** Distribution of tyrosine hydroxylase positive cells in different subregions of the VTA in morphine-dependent rats  
G. MULAS, F. PIRAS, C. MURA, C. CANNIZZARO, S. SPIGA & M. DIANA
- B483** Serotonergic dysfunction mediates decrease in motivation for instrumental action in hypothyroidism model monkeys  
T. MINAMIMOTO, A. OH-NISHI, Y. HORI, Y. NAGAI & T. SUHARA
- B484** Dissociating the development of morphine tolerance  
M. KERMANI AHANGARANI FARAHANI, A. HAGHPARAST & A. KHANI
- B485** The effect of calorie restriction on drug-seeking and relapse: an electrophysiological investigation of the Nucleus Accumbens (NAc)  
L. GUCCIONE, E. DJOUMA & A.G. PAOLINI
- B486** *In vitro* evaluation of mu-opioid receptors in obesity: a PET study  
R.M. MORESCO, G. GELSOMINO, G. RIZZO, A. SARTORIO, F. AGOSTI, A. PANZACCHI, E. TUROLLA, M. MATARRESE, F. FAZIO & C.L. LAFORTUNA
- B487** Plasma R-methadone levels and therapeutic outcome in opioid addiction  
G. MANNAIONI, E. MASINI, R. MASTROIANNI, V. GALLI, C. LANZI, M. LOTTI, A. DILAGHI, A. TOTTI, C. PRATUCCI, I. PACILEO, M. SILI, L. BERTIERI, F. ORSINI, B. OCCUPATI, A. MICHAHELLES, R. CIUTI, P. PEZZATI, E. BIANCHINI, G. FABBRO, A. BIGGERI, F. TORRICELLI, C. GIULIANI, S. BARDI, M. CESERI, E. BALDINI, A. ATZORI, A. MANFREDI, P. GAI, S. GARCIA, C. ULIVA, C. GROPPI, F. FABRIZI, M. TEDICI, C. MARZOCCA, P. TROTTA, G. TAVANTI, L. PALAGI, P. LEONARDI, G. GRENCI, B. PALMERANI, D. POSARELLI, P. PANTI, L. CALVIANI, A. RICCI, M. CARLETTI, L. BERNI, A. GUIDI, G. LAVACCHINI & F. MORONI
- B488** JWH-018: a cannabinoid compound of Spice drugs stimulates dopamine transmission in the nucleus accumbens shell  
M.A. DE LUCA, P. CABONI, Z. BIMPISIDIS & G. DI CHIARA
- B489** Morphine withdrawal is associated with multiple epigenetic histone modifications in the rat lateral septum and nucleus accumbens  
A. CICCARELLI, A. CALZA, F. SANTORU, A. CONCAS, M. SASSOÈ-POGNETTO & M. GIUSTETTO
- B490** N-acetylcystine attenuates the behavioral and molecular responses induced by hallucinogenic 5-HT<sub>2A</sub> receptor agonists in mice  
H.-H. CHEN & C.-C. CHIANG
- B491** Hippocampal proliferative processes are needed for behavioral effects of Cannabidiol  
A.C. CAMPOS, J. PALAZUELLOS, T. AGUADO, D.C. AGUIAR, M. GUZMAN, I. GALVE-ROPERH & F.S. GUIMARÃES
- B492** Fruit essential oil of cumin (*Cuminum cyminum L.*) reduced the raising effect of L-Arginine on morphine-induced conditioned place preference in mice  
P. AZIZI
- B493** Development of behavioral sensitization and not only an ethanol chronic treatment is associated with high accumbal phosphor-Thr34 DARPP-32 levels induced by dopamine D1 receptor agonist administration  
K.P. ABRAHAO, F.O. GOELDNER & M.L.O. SOUZA-FORMIGONI
- 
- 18. Neuroinformatics & computational neuroscience**
- B494** Software for simulating the processing of visual stimuli in the retina  
D. ALEXANDRU, M. GEORGESCU, B. CATALIN, D. GEORGESCU & M. IANCAU
- B495** A computational investigation of the cortical circuitry for early processing of real and illusory contour detection  
A. COHEN & P. TIESINGA
- B496** How unique is the message in a retinal ganglion cell spike train?  
J.B. TROY, F. YRAZU & C.L. PASSAGLIA
- B497** VistaTraining: a new method for visual perception improvement  
J.M. RODRIGUEZ-FERRER
- B498** Slow modulations of spiking activity as determinants of local field potentials  
V. D'ANDREA, M. MATTIA, S. FERRAINA & P. DEL GIUDICE
- B499** The influence of ambient sounds on cerebral activity  
M. GEORGESCU, D. GEORGESCU, B. CATALIN, V. SFREDEL, D. ENESCU BIERU, D. ALEXANDRU, O. STREATA, V. NESTIANU & M. IANCAU

- B500** Roles of short- and long-term synaptic plasticity for the distal reward problem  
T. XIKAMOTO & K. KITANO
- B501** Simultaneous intravital two photon imaging of layers I to V with chronically implanted microprisms  
N.B. GILFOY, R.N.S. SACHDEV, D.A. MCCORMICK & M.J. LEVENE
- B502** Discounted value problem becomes ill-posed by subject's strategy  
Y. YAMAGUCHI & Y. SAKAI
- B503** Neuronal and synaptic functional connectivity by sequence mining techniques  
A.G. ZIPPO, R. STORCHI, M. VALENTE, G.C. CARAMENTI & G.E.M. BIELLA
- B504** A mismatch-based model for memory reconsolidation and extinction in attractor networks  
R. OSAN, A.B.L. TORT & O.B. AMARAL
- B505** Machine-readable description of neuron types and properties  
D.J. HAMILTON, M. BERGAMINO, J. DE FELIPE, N. LE NOVÈRE, G.M. SHEPHERD, M.P. WITTER & G. ASCOLI
- B506** Sensorimotor cortex functional connectivity during foot motor execution and imagery: a study on healthy individuals using eConnectome  
A. ATHANASIOU, K. KALOGIANNI & P.D. BAMIDIS
- B507** Dendritic morphology alterations and epilepsy: a neurocomputational study  
M.F. GARCÍA, J. TEJADA & A.C. ROQUE
- B508** Advancing massively-parallel analytic capabilities for multielectrode recordings  
D. GARDNER, J. BANFELDER, A.B. JAGDALE, M. REPUCCI & J.D. VICTOR
- B509** Neuronal classification from network connectivity  
R. GOLDIN, P. SALOMONSKY, C. PRIEBE, D.J. MARCHETTE & G. ASCOLI
- B510** Atlas aided stereotactic deep brain stimulation: aDBS  
M. MAJTANIK, D. LÖCHEL, V. STURM & J.K. MAI
- B511** Interplay between network dynamics and connectivity in dissociated cortical cultures: a theoretical and experimental approach  
P. MASSOBRIO, V. PASQUALE, M. GAROFALO & S. MARTINOIA
- B512** 3D finite element model of extracellular stimulation of neurons and networks  
S. MIKULOVIC, P. BAUER, N. NEUMANN, F. RATTAY & R. LEAO
- B513** A computational model of imbalance in excitatory/inhibitory ratio and its relation to switch attention deficit in autistic brain  
N. MOHAMMADI SEPAHVAND, R. BAKHTIARI KOUHSORKHI, M. NILI AHMADABADI & B. NADJAR ARAABI
- B514** How much do neurons weight? A universal glia scaling rule for mammalian brains and its implications for brain structure, development and evolution  
B. MOTA & S. HERCULANO-HOUZEL
- B515** Role of thermoregulated conductances on the dynamic response of peripheral innocuous cold receptor terminals: a mathematical modeling approach  
E. OLIVARES, R. MADRID & P. ORIO
- B516** Free concepts association: a neural model  
E. RUSSO & A. TREVES
- B517** Realistic modeling cerebellar UBC intrinsic excitability  
S. SUBRAMANIAM, P. PERIN, F. LOCATELLI, S. MASETTO, S. SOLINAS & E. D'ANGELO
- 
- 19. Neuroelectronics & neurobotic interfaces**
- 
- B518** A semi-automated machine for isotropic fractionation of large brains  
F.A.C. AZEVEDO, H.C. ANDRADE-MORAES, M.R. CURADO, A.V. OLIVEIRA-PINTO, D.M. GUIMARAES, D. SZCZUPAK, B.V. GOMES, D. OLIVEIRA & R. LENT
- B519** Advancing neuronal cellular and network analysis using a high-density 11,011-microelectrode CMOS array  
D.J. BAKKUM, U. FREY, J. MUELLER, M. FISCELLA, H. TAKAHASHI & A. HIERLEMANN
- B520** Talking to cells with light: a high power two dimensional microLEDs array for optoelectronic retinal prosthesis and optogenetics applications  
R. BERLINGUER PALMINI, B. MCGOVERN, K. MEHRAN, N. GROSSMAN & P. DEGENAAR
- B521** Decoding the neural representation for action observation and action production from non-invasive electroencephalography (EEG) signals  
J.L. CONTRERAS-VIDAL & T.J. BRADBERRY
- B522** Hybrid opto-electrical control of neural tissue  
A.R. DUKE, H. LU, M.W. JENKINS, P.E. KONRAD, A. MAHADEVAN-JANSEN, H.J. CHIEL & E.D. JANSEN
- B523** Validation of a high-density microelectrode array for acute brain slice recordings  
E. FERREA, L. MEDRIHAN, A. MACCIONE, P. BALDELLI, D. GHEZZI, F. BENFENATI & L. BERDONDINI



## POSTER PRESENTATION

- B524** **A hybrid bio-organic interface for neuronal photoactivation**  
D. GHEZZI, M.R. ANTOGNAZZA, M. DAL MASCHIO, E. LANZARINI, G. LANZANI & F. BENFENATI
- B525** **Voltage and current stimulus range for wild-type and *rd1* mice retina with optimal modulation of retinal ganglion cell (RGC) response**  
Y.S. GOO, K.N. AHN, S.B. RYU & K.H. KIM
- B526** **Voltage-sensitive dye imaging for primary cultured neurons, acute slice of cerebral cortex, and visual cortex by using a biomedical photonic LSI (BpLSI) device**  
T. KOBAYASHI, M. MOTOYAMA, Y. SAWADSRINGKARN, A. TAGAWA, T. NODA, K. SASAGAWA, T. TOKUDA, Y. HATANAKA, H. TAMURA, Y. ISHIKAWA, S. SHIOSAKA & J. OHTA
- B527** **Softer materials decrease foreign body response in the brain**  
P. MOSHAYEDI, K. FRANZE, A.F. CHRIST, G.S. YEO, J.W. FAWCETT & J. GUCK
- B528** **Inferring linear and angular kinematics during walking from non-invasive EEG signals**  
A. PRESACCO, L. FORRESTER & J.L. CONTRERAS-VIDAL
- B529** **Investigating 2D/3D patterned networks coupled with high-resolution MEAs for functional studies**  
A. SIMI, E. MARCONI, A. MACCIONE, T. NIEUS, A. BOSCA, F. BRANDI, F. BENFENATI, S. DANTE & L. BERDONDINI
- B530** **High resolution recording in the rat brain cortex by a multi transistor array chip**  
M. MASCHIETTO, S. GIRARDI, F. FELDERER, E. PASQUALOTTO, M. MAHMUD & S. VASSANELLI
- B531** **Comparison of visual acuity between visual prosthetic approaches**  
M. VURRO & J.S. PEZARIS
- 
- 20. History, teaching, neuroethics, awareness & social impact**
- H001** **Scientists and the unification of Italy**  
M. BENTIVOGLIO & M.C. STEFANINI
- H002** **Using impulse reviewer training sites to engage students in basic research**  
K.B. DAVISON, M. BARKHUIZEN, K. CRISP, K. CRONISE, S. SMITH, S.M. SWEITZER, S. SYMINGTON, V. TURGEON & L.S. JONES
- H003** **Neuroscience and teacher training: a dialogue needed**  
F.A.H. DE CARVALHO, A.M. MAIATO & D.M. BARROS
- H004** **IBRO inter-regional activities initiative**  
K.A. KORALEK, R. ROCKSTAD-REX & M. DI LUCA
- H005** **The international neurobioetica multidisciplinary study and research group: report of meetings, seminars and future work**  
A. GINI, A. GARCIA & R. PASCUAL
- H006** **Neurology training in Ethiopia: past, present and future**  
J. GEMECHU, G. ZENEBE, M. ZEBENIGUS & Y. WOLDEAMANUEL
- H007** **Teaching tools in Africa**  
S. JULIANO
- H008** **Milestones in neuroscience of epilepsia partialis continua**  
Y. LEKOMTSEVA
- H009** **An epistemological investigation within the neurosciences: the utility of the comparison with some psychotherapeutic models**  
M.A. MANGIONE
- H010** **Ethical intelligence and education for culture of peace: the neuro-physiologocal dynamics in a sustainable way**  
R.D.F. MIGLIORI
- H011** **Objective-based learning and integrated approach to assessment of neuroscience practical instruction for medical students**  
A.B. ODUTOLA
- H012** **The evaluation of the Croatian version of the Epworth sleepiness Scale and STOP questionnaire as screening tools for obstructive sleep apnea syndrome**  
R. PECOTIC, I. PAVLINAC, M. VALIC, N. IVKOVIC & Z. DOGAS
- H013** **The prefix 'Neuro' in terms like neuromarketing, neuroeconomics: truly transdisciplinary approaches or just catchy hyped up syllables?**  
S. PRABHU, H. MISRA, B. AUGIER & A. SHERDIL
- H014** **Five years after: reviewing progress and forthcoming challenges of a novel Canadian neuroethics research program**  
E. RACINE & E. BELL
- H015** **The mystical dimensions of neuroethics**  
M. RAZA
- H016** **Education on drug abuse to children and adolescents from poor and violent urban communities**  
M. ROCHA

- H017 The research nursery “neuroplasticity”**  
L. FRANCIS, M. AVILA, A.M. SABOGAL GUAQUETA, E. MAYORGA, D. NAVARRO, A. BONILLA, N. BONILLA, L. DE LOS REYES, L. TRUJILLO, M. HERNANDEZ, J. SALGUERO, A. ROJAS, J. DIAZ, J. MONROY, L. ROJAS, C. MURCIA, U. FLOREZ & A. BENITEZ
- H018 Awareness and social impact of neuroscience education in India: a students’ perspective**  
J.K. SINHA & S. GHOSH
- H019 Neuroethics in a deontological and utilitarian context. An ERP analysis on the “emotional effect”**  
A. TERENCE & M. BALCONI
- H020 From Kinshasa to Kigali, from Qindao to Manasar: the IBRO initiative in encouraging young neuroscientists around the world**  
S. SARA, K.M. MOREIRA & R. AKINYEMI

**Scientific Program**

**Sunday July 17**

# CRONO® PAR III



## Ambulatory infusion pump

New **CRONO PAR III** represents the third generation of **CRONO PAR** pumps for Parkinson Disease treatment with apomorphine®.

The main features are the following:

- A real-time clock which allows setting different flow rates for 24 hours.
- Two microcontrollers for a better safety and reliability.

**COMING SOON**

## Ambulatory infusion pump

**CRONO S-PID 50** is a syringe ambulatory infusion pump for controlled subcutaneous administration of immunoglobulines.

Its downsized dimension (84.5 x 55 x 42 mm) and light weight (140 g battery included) make it ideal for home therapy giving the patient the freedom to do everyday activities.

# CRONO® S-PID 50



**CE 0476**

# neria™



**CE 0301**

## Subcutaneous infusion set

neria™ infusion set is a steel needle infusion set designed with ease of use and discreet wear in mind. neria™ infusion set is inserted at a 90 degree angle. The simple and quick insertion method supports patient self management and is the perfect choice when using continuous pump therapy. neria™ infusion set is suitable for all patient types.

Produced by Unomedical.  
Distributed in Italy by: CANÈ S.p.A.

**Unomedical**  
A ConvaTec Company

# crn® CRONO® Syringe



**CE 0123**

## Crono pumps syringes

All Crono pumps run with dedicated CRN® CRONO syringes available for:

- 20 ml (for **CRONO PAR III**)
- 50 ml (for **CRONO S-PID 50**)

## Produced by:

CANÈ S.p.A. Via Cuorgnè, 42/a  
10098 Rivoli Torino, Italy

[www.canespa.it](http://www.canespa.it) - [mailbox@canespa.it](mailto:mailbox@canespa.it)

**CANÈ**  
MEDICAL TECHNOLOGY



**08:30-09:30 PLENARY LECTURE PL6**

**Auditorium Verdi**

Introduced by: **Domenico E. Pellegrini-Giampietro** (Florence, Italy)

Visualizing circuits in the developing visual system

**Joshua R. Sanes** (Harvard, USA)

**09:40-11:40 SYMPOSIUM S11**

**Auditorium Verdi**

**CHROMATIN REMODELING IN NEURAL DEVELOPMENT**

Chaired by: **Victor Tarabykin** (Berlin, Germany)

S11.1 - 09:40

Epigenetic regulation of neural stem/progenitor cell differentiation

**Yi Eve Sun** (Los Angeles, USA)

S11.2 - 10:10

A novel epigenetic mechanism in neurons

**Antonella Riccio** (London, UK)

S11.3 - 10:40

The role of histone modifying enzymes in motor neuron development

**Soo-Kyung Lee** (Houston, Texas)

S11.4 - 11:10

Control of neocortical development by Satb proteins

**Victor Tarabykin** (Berlin, Germany)

**09:40-11:40 SYMPOSIUM S12**

**Room Mazzini**

**GLIAL AND NEURONAL CONTROL OF BRAIN BLOOD FLOW IN HEALTH AND DISEASE**

Chaired by: **Serge Charpak** (Paris, France)

S12.1 - 09:40

The regulation of brain blood flow by synaptic activity in vivo

**Martin Lauritzen** (Glostrup, Denmark)

S12.2 - 10:10

Astrocyte modulation of cerebral blood vessels in health and disease

**Brian MacVicar** (Vancouver, Canada)

S12.3 - 10:40

Glial regulation of blood flow in the normal and diabetic retina

**Eric Newman** (Minneapolis, USA)

S12.4 - 11:10

Regulation of capillary diameter by pericytes in health and disease

**David Attwell** (London, UK)

**09:40-11:40 SYMPOSIUM S13**

**Room Cavour**

**NEW ROLES FOR MELANOPSIN PHOTOPIGMENT IN NON-VISUAL AND VISUAL FUNCTIONS**

Chaired by: **Howard Cooper** (Bron, France)

S13.1 - 09:40

Light and the human circadian timing system

**Claude Gronfier** (Bron, France)

S13.2 - 10:10

Melanopsin input to visual structures of the brain in the mouse

**Robert J. Lucas** (Manchester, UK)

S13.3 - 10:40

Short wavelength light modulation of cognitive and emotional brain function in humans

**Gilles Vandewalle** (Liege, Belgium)

S13.4 - 11:10

Use of ectopically expressed Melanopsin to restore vision in blind animals

**Satchidananda Panda** (La Jolla, USA)

**09:40-11:40 SYMPOSIUM S14**

**Room Vittorio Emanuele II**

**MENTAL AND PHYSICAL ACTIVITY AS MODULATORS OF BRAIN FUNCTION AND DISEASE**

Chaired by: **Anthony Hannan** (Melbourne, Australia)

S14.1 - 09:40

Brain and environment

**Lamberto Maffei** (Pisa, Italy)

S14.2 - 10:10

Regulation and function of adult hippocampal neurogenesis: the role of exercise

**Henriette van Praag** (Baltimore, USA)

S14.3 - 10:40

Unraveling the role of genes and environment in cognitive dysfunction

**Jess Nithianantharajah** (Cambridge, UK)

S14.4 - 11:10

Preventive and curative effects of environmental enrichment on drug addiction

**Marcello Solinas** (Poitiers, France)

**09:40-11:40 SYMPOSIUM S15**

**Room Garibaldi**

**STRESS, PLASTICITY & DRUG-SEEKING  
SPONSORED BY THE BRITISH JOURNAL OF PHARMACOLOGY**

Chaired by: **Andrew Lawrence** (Victoria, Australia)

S15.1 - 09:40

Pregnancy induces changes in the brain plasticity: reversal by stress due to maternal separation

**Giovanni Biggio** (Cagliari, Italy)

S15.2 - 10:10

The effect of drug exposure on learning-related plasticity in the striatum and decision-making

**Bernard Balleine** (Sydney, Australia)

S15.3 - 10:40

The role of neuronal nicotinic acetylcholine receptors in the development of alcohol and nicotine use disorders

**Selena Bartlett** (San Francisco, USA)

S15.4 - 11:10

New anti-relapse drugs: findings from preclinical and translational studies

**Rainer Spanagel** (Mannheim, Germany)

**11:40-14:15 POSTER SESSION C**

**Poster Area**

**(see detail page 108)**

Posters should be placed on the boards from 9:30 on each day and removed by 17:30. No responsibility will be taken for posters which are left behind. **Posters will be attended by the Presenting Author from 11:40 to 14:15 on each day.**

The poster boards are numbered and adhesive material will be available at each board (please do not use drawing pins or thumbtacks). **The number of the abstract corresponds to the number of the poster panel.**



The Posters for **Topic 20 (History, teaching, neuroethics, awareness & social impact)** will be on display for the entire period of the congress (from Friday, July 15 to Monday, July 18) and will be attended by the Presenting Author from 11:40 to 14:15 on the first day, Friday, July 15.

**Italian Society of Neuroscience (Young Investigator Visiting Programme) Poster Prize:** The best posters by participants from low-income countries will be selected each day by a Selection Committee and awarded at the late afternoon Plenary Lecture at 17:30 of each day.)

01. Nervous system development & developmental disorders (Axonogenesis, synaptogenesis & miscellanea)
03. Glia (Astrocytes)
06. Excitable membranes & ion channels (Trafficking, mechanisms & methods)
08. Neural plasticity (Pharmacology & disease)
09. Neuroendocrine & autonomic regulation (Hormones, salt & water balance)
10. Pain (Inflammation & other mechanisms)
11. Sensory systems (Other perception systems)
12. Motor systems (Disease)
13. Learning & memory (Pharmacology & toxicology)
14. Cognition & emotion (Human cognition & emotion)
15. Neurodegeneration & aging (Aging, epilepsy & ischemia)
16. Neurological disorders (Inflammation & other disorders)
17. Psychiatric & behavioural disorders (Compulsive behaviour, panic & other disorders)
20. History, teaching, neuroethics, awareness & social impact

**12:30-14:00 SPECIAL EVENT SE07** Room Mazzini  
**INTO THE BRAIN OF PATIENT H.M. - COMPUTERIZED ANATOMICAL EXAMINATION OF A NOTABLE CASE OF AMNESIA**  
Presented by: **Jacopo Annese** (San Diego, USA)

**12:00-14:00 SPECIAL EVENT SE08** Room Cavour  
**ETHICS OF SCIENTIFIC PUBLISHING -- WHY DOES IT MATTER? ADVICE FROM EDITORS OF NEUROSCIENCE JOURNALS SOCIETY FOR NEUROSCIENCE (USA) AND IBRO WORKSHOP**  
Participants: **Jean-Marc Fritschy** (Eur J Neurosci, Editor-in-Chief), **Nancy Ip** (Soc Neurosci, Councilor), **Atsushi Iriki** (Neurosci Res, Editor-in-Chief), **Steve Lisberger** (Neuroscience, Chief Editor) and **John Maunsell** (J Neurosci, Editor-in Chief)

Publishing a scientific article involves complex decisions about who should be an author, what previous work must be cited, and how to summarize data succinctly yet faithfully. While clear principles and guidelines exist, they can be complex and subtle, but failing to meet accepted standards can have serious consequences. In this workshop, editors of several prominent neuroscience journals will review guidelines to help authors avoid issues related to topics including authorship, dual submission, duplicate publication, copyright violation, plagiarism, and misrepresentation of data. The session will include presentations that provide specific examples and pointers to resources with guidance on specific topics related to ethics in scientific publication

**12:30-14:00 SPECIAL EVENT SE09** Room Garibaldi  
**MEETING JAPANESE NEUROSCIENTISTS**  
Chaired by: **Noriko Osumi** (Sendai, Japan) and **Hitoshi Okamoto** (Wako, Japan)

SE09.1  
Neuroscience must go on: Situation in Sendai 4 months after 3/11 disaster  
**Noriko Osumi** (Sendai, Japan)

SE09.2  
Gratefulness for friendship of overseas colleagues and activity of JNS  
**Tadaharu Tsumoto** (Wako, Japan)

SE09.3  
NIPS activity to support affected scientists in Eastern Japan  
**Ryuichi Shigemoto** (Okazaki, Japan)

SE09.4  
Neuroscience Research and Education in Tokyo after the 0311 Disaster  
**Masanobu Kano** (Tokyo, Japan)

SE09.5  
Unity in the face of adversity: A tale of a foreign student's life in earthquake stricken country  
**Wajeeha Aziz** (Okazaki, Japan)

SE09.6  
Normal life and work have returned to the Greater Tokyo area after brief post-quake confusion and uncertainty  
**Kang Cheng** (Wako, Japan)

On March 11, 2011, the greatest earthquake in the history of Japan struck Tohoku, the northeast part of the main island of Japan. Multiple waves of Tsunami almost completely swept away the villages and towns in the affected coastal areas. After this unprecedented disaster, the neuroscientists in Japan have received a great encouragement and supports from the colleagues all over the world. In this event, we would like to express our thanks to the world neuroscience community, and report about the state of Japan then and after 3.11. We welcome our friends from all over the world to come and join this event and use this opportunity to meet Japanese colleagues.

**12:30-14:00 SPECIAL EVENT SE10** Room Vittorio Emanuele II  
**JOINT MEETING BETWEEN THE FRENCH AND ITALIAN NEUROSCIENCE SOCIETIES**

**SDN-SINS MINISYMPOSIUM 3**  
**NEW NEURONS FOR DISEASED BRAINS: FUNCTIONAL SIGNIFICANCE AND PERSPECTIVES FOR BRAIN REPAIR**  
**Renata Bartesaghi** (Bologna, Italy) and **Claire Rampon** (Toulouse, France)

SE10.1 - 12:35  
Gene-environment interactions and experience-dependent cellular plasticity in mouse models of brain disorders  
**Anthony Hannan** (Melbourne, Australia)

SE10.2 - 12:55  
Pharmacotherapy with antidepressants restores neurogenesis in the Ts65Dn mouse model for Down syndrome  
**Renata Bartesaghi** (Bologna, Italy)

SE10.3 - 13:15  
Adult hippocampal neurogenesis and functional recovery in mouse models of Alzheimer's disease  
**Claire Rampon** (Toulouse, France)

SE10.4 - 13:35  
Stem cell therapy in Parkinson's disease: when neurogenesis meets neuroprotection  
**Lidia Cova** (Milan, Italy)



**14:15-15:45 WORKSHOP W21**

Room Vittorio Emanuele II

**BUILDING CEREBELLAR CIRCUITS: FROM NEURONAL SPECIFICATION TO SYNAPSE FORMATION**

Chaired by: **Constantino Sotelo** (Alicante, Spain)

W21.1 - 14:20

Regulation of cerebellar neurogenesis as revealed through the analysis of transgenic mice

**Giacomo Consalez** (Milan, Italy)

W21.2 - 14:40

The genesis of cerebellar GABAergic neurons

**Ferdinando Rossi** (Turin, Italy)

W21.3 - 15:00

Molecular control of neuronal migration in the cerebellar system

**Alain Chedotal** (Paris, France)

W21.4 - 15:20

Molecular mechanisms of synaptic specificity in cerebellar circuits

**Peter Scheiffele** (Basel, Switzerland)

**14:15-15:45 WORKSHOP W22**

Room Mazzini

**NEURAL MECHANISMS UNDERLYING SPATIAL STABILITY**

Chaired by: **David Burr** (Florence, Italy)

W22.1 - 14:20

Saccadic suppression from the pulvinar pathway

**Robert Wurtz** (Bethesda, USA)

W22.2 - 14:40

The role of oculomotor proprioception in spatial computations

**Michael Goldberg** (New York, USA)

W22.3 - 15:00

Space encoding during fast eye movements

**Frank Bremmer** (Marburg, Germany)

W22.4 - 15:20

Spatio-temporal plasticity of receptive fields during saccades

**Concetta Morrone** (Pisa, Italy)

**14:15-15:45 WORKSHOP W23**

Room Cavour

**BDNF AND THE CONTROL OF THE TRANSLATIONAL MACHINERY IN DENDRITES**

Chaired by: **Enrico Tongiorgi** (Trieste, Italy)

W23.1 - 14:20

BDNF-induced changes in the proteome of dendrites: protein synthesis vs. protein degradation

**Carlos Duarte** (Coimbra, Portugal)

W23.2 - 14:40

BDNF and the translational control of long-term potentiation

**Clive Bramham** (Bergen, Norway)

W23.3 - 15:00

Regulation of miRNAs-mediated synaptic plasticity by BDNF

**Simon Arthur** (Dundee, UK)

W23.4 - 15:20

Diversity in the regulation of BDNF splice variants translation

**Enrico Tongiorgi** (Trieste, Italy)

**14:15-15:45 WORKSHOP W24**

Auditorium Verdi

**PRION PROTEIN IN INTRACELLULAR AND INTERCELLULAR SIGNALLING IN THE BRAIN**

Chaired by: **Marco Prado** (London, Canada)

W24.1 - 14:20

Imaging prions: the site of pathological conversion and mechanism of spreading

**Chiara Zurzolo** (Paris, France)

W24.2 - 14:40

LRP1-prion protein (PrPC) interactions as controllers of amyloid processing by neurons

**Roger Morris** (London, UK)

W24.3 - 15:00

Copper dependent regulation of NMDA receptor by cellular prion protein - a role in Alzheimer's disease

**Gerald Zamponi** (Calgary, Canada)

W24.4 - 15:20

Regulation of cellular signaling: Prion protein on the move

**Marco Prado** (London, Canada)

**14:15-15:45 WORKSHOP W25**

Room Garibaldi

**ADVANCES IN OPTICAL IMAGING OF BRAIN FUNCTION SPONSORED BY LEICA MICROSYSTEMS**

Chaired by: **Gian Michele Ratto** (Pisa, Italy) and **Giorgio Carmignoto** (Padova, Italy)

W25.1 - 14:20

Targeted patch clamp recordings from fine dendrites

**Thomas Nevian** (Bern, Switzerland)

W25.2 - 14:40

STED microscopy to study macromolecular architectures at synapses

**Stephan J. Sigrist** (Berlin, Germany)

W25.3 - 15:00

High resolution fluorescence imaging of optically cleared mouse brain tissue

**Gunter Giese** (Heidelberg, Germany)

W25.4 - 15:20

Chloride and pH imaging in vivo using a GFP-based sensor

**Daniele Arosio** (Trento, Italy)

**15:50-17:20 WORKSHOP W26**

Room Vittorio Emanuele II

**ASTROCYTES IN PHYSIOLOGY AND PATHOLOGY**

Chaired by: **Michael VL Bennett** (New York, USA)

W26.1 - 15:55

Endocannabinoid-mediated astrocyte-neuron signalling

**Alfonso Araque** (Madrid, Spain)

W26.2 - 16:15

Normal and pathological astrocyte-oligodendrocyte coupling

**Luis C. Barrio** (Madrid, Spain)

W26.3 - 16:35

Cholinergic signalling in astrocyte-neuron communication

**Gertrudis Perea** (Cambridge, USA)

W26.4 - 16:55

Pannexin and connexin hemichannels in spinal cord inflammation

**Michael VL Bennett** (New York, USA)

## 15:50-17:20 WORKSHOP W27

Room Mazzini

### TEMPORAL STRUCTURE OF SPATIAL MEMORY: ATTRACTOR DYNAMICS OF HIPPOCAMPAL SPATIAL PROCESSING IN HEALTH AND SCHIZOPHRENIA

Chaired by: **Alessandro Treves** (Trieste, Italy)

W27.1 - 15:55

Constructing a sense of place - the role of cue detection and cue integration

**Kate Jeffery** (London, UK)

W27.2 - 16:15

Memories as hippocampal attractor states and their competition disclosed by teleportation

**Karel Jezek** (Prague, Czech Republic)

W27.3 - 16:35

Neural correlates of cognitive control and schizophrenia-related disorganization in hippocampus

**Andre A. Fenton** (Brooklyn, USA)

W27.4 - 16:55

Instability in attractor neural network dynamics and schizophrenia

**Edmund T. Rolls** (Oxford, UK)

## 15:50-17:20 WORKSHOP W28

Room Cavour

### STRESS AT THE SYNAPSE. HOW BEHAVIORAL STRESS AND CORTICOSTEROIDS MODIFY SYNAPTIC TRANSMISSION AND PLASTICITY

Chaired by: **Maurizio Popoli** (Milan, Italy)

W28.1 - 15:55

Metaplasticity of corticosteroid actions in the synapse

**Marian Joels** (Utrecht, The Netherlands)

W28.2 - 16:15

Imaging the interplay of stress hormone and glutamate receptor at the single molecule level

**Laurent Groc** (Bordeaux, France)

W28.3 - 16:35

Action of stress on presynaptic release of glutamate and modulation by antidepressant agents

**Maurizio Popoli** (Milan, Italy)

W28.4 - 16:55

Synaptic and local circuit plasticity in the dentate gyrus. Potential relevance to traumatic memories

**Ziv Ardi** (Haifa, Israel)

## 15:50-17:20 WORKSHOP W29

Auditorium Verdi

### IMMUNE CELL ENTRY AND FUNCTION WITHIN THE CNS: NEW MECHANISMS AND THERAPEUTIC OPPORTUNITIES

Chaired by: **Robyn Klein** (St. Louis, USA)

W29.1 - 15:55

From immune surveillance to autoimmune disease: how effector T cells invade the brain

**Alexander Fluegel** (Martinsried, Germany)

W29.2 - 16:15

Lymphocytes and loss of blood-brain barrier polarity during CNS inflammation

**Robyn Klein** (St. Louis, USA)

W29.3 - 16:35

Immunomodulatory role of adiponectin in the animal model of multiple sclerosis

**Laura Piccio** (St. Louis, USA)

W29.4 - 16:55

A role for mucins in leukocyte trafficking in neurological diseases

**Gabriela Constantin** (Verona, Italy)

## 15:50-17:20 WORKSHOP W30

Room Garibaldi

### NEURAL MECHANISMS OF RESPIRATORY RHYTHM GENERATION SPONSORED BY THE MENARINI INTERNATIONAL FOUNDATION

Chaired by: **Fulvia Bongiani** (Florence, Italy)

W30.1 - 15:55

Multiple oscillators for respiratory pattern formation

**Ana Abdala** (Bristol, UK)

W30.2 - 16:15

Differential contribution of pacemaker neurons to respiratory rhythm generation

**Fernando Peña** (Mexico City, Mexico)

W30.3 - 16:35

Synaptically activated burst-generating conductances in respiratory rhythm generation in the mammalian preBötzinger Complex

**Christopher A. Del Negro** (Williamsburg, USA)

W30.4 - 16:55

Neurotransmitters and ionic mechanisms within the respiratory network of the lamprey

**Donatella Mutolo** (Florence, Italy)

## 17:30-18:30 PLENARY LECTURE PL7

Auditorium Verdi

Introduced by: **Maria Grazia Spillantini** (Cambridge, UK)

Molecular genetics of neurodegenerative dementias

**Christine van Broeckhoven** (Antwerpen, Belgium)

## 18:40-19:40 SPECIAL WORKSHOP SW07

Room Mazzini

### EVENING DISCUSSION WITH PLENARY SPEAKERS III: SELECTING CREATIVE RESEARCH QUESTIONS

Chaired by: **Michael J. Zigmond** (Pittsburgh, USA) and **Beth A. Fischer** (Pittsburgh, USA)

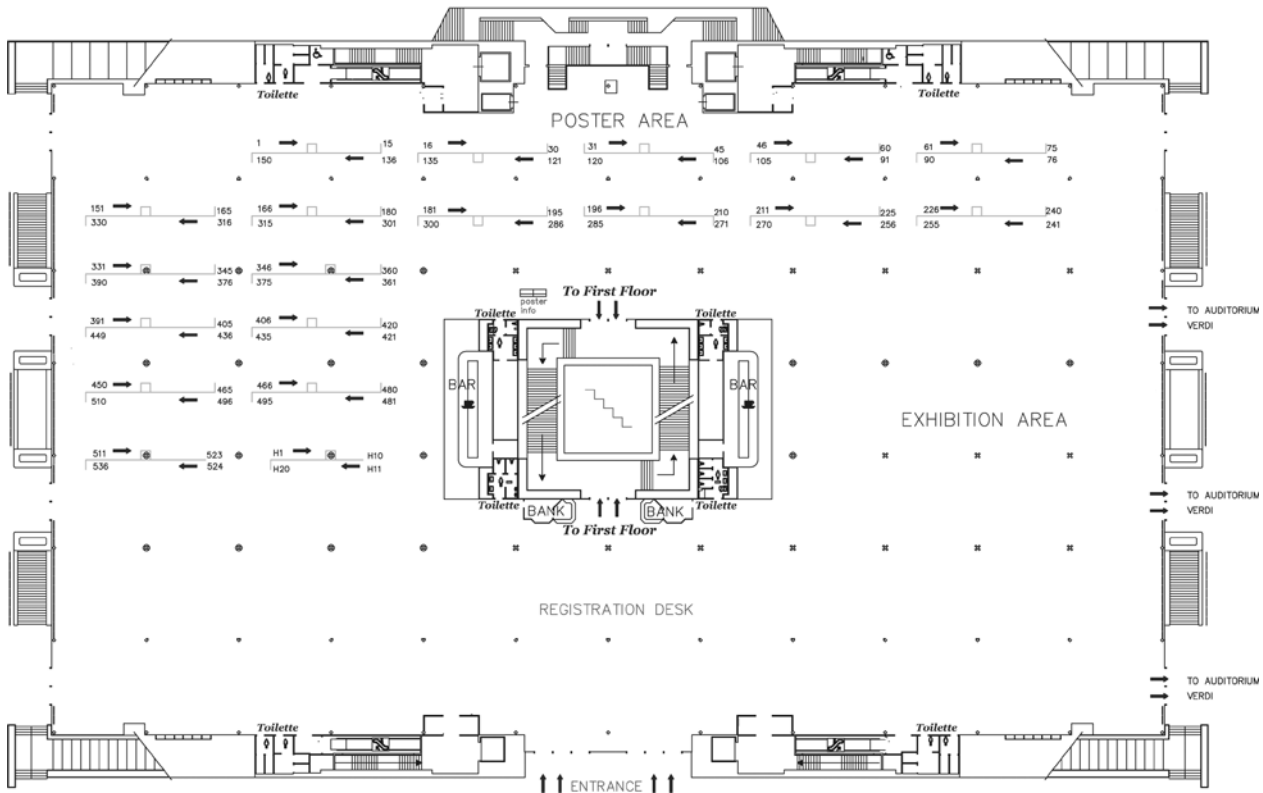
Participants will include **Fred H. Gage** (La Jolla, USA)

We will consider how to go about selecting the right research questions, a key element in a successful career. Some of the issues we are likely to discuss are: How to determine if a project is feasible given your resources? How much reading of the literature should you do before making a selection? How many projects should you have going at one time? How important is having a hypothesis? Why is having a "secret weapon" one of the characteristics of being successful? How does one balance innovation with likelihood of success? Trainees and mentors are invited to join in the discussion.



## POSTER PRESENTATION

### Pavilion A - Ground Floor - Poster Area



**01. Nervous system development & developmental disorders (Migration, differentiation & plasticity)**

**C001 Regulation of NGF-promoted axonal growth by IL-1 $\beta$  and TNF during the sympathetic neuron development**  
A. NOLAN & G.W. O'KEEFFE

**C002 Role of FABPs in the neurotrophic effect of oleic acid during the postnatal development of the brain**  
A.A. ARROYO, A. TABERNERO & J.M. MEDINA

**C003 Expression of neurotrophin receptors TrkB, TrkC and p75 in the developing brain of the Monodelphis opossum**  
K. BARTKOWSKA, R.L. DJAVADIAN & K. TURLEJSKI

**C004 Postnatal expression of CRMP4 mRNA in the brain and structural changes in the olfactory bulb of CRMP4-knockout mice**  
A. TSUTIYA, M. SAKOH, N. YAMASHITA, Y. GOSHIMA & R. OHTANI-KANEKO

**C005 Gabaergic interneurons display plateau potential activity at the onset of the spontaneous activity during early spinal cord development**  
H. LE-CORRONC, A. CZARNECKI, R. CHIARA, F.J. ALVAREZ & P. LEGENDRE

**C006 Tyrosine kinase Ack1 in axonal and dendritic branching in mouse neurons**

J.M. UREÑA, M.M. MASDEU, A. LA TORRE & E. SORIANO

**C007 Nak regulates localization of clathrin in local dendrite growth**

W.-K. YANG, Y.-H. PENG, H.-C. LIN, C.-Y. OU, H. LI, H. SUO, Y.-J. LIN, T.-T. LAI, X. ZHOU, H. PI, H.C. CHANG & C.-T. CHIEN

**C008 Development of the visual system in children**

S. AYALA-SORIANO, R. LIONS, T. MELLOW, A. LIASIS & C. CLARK

**C009 MRI analysis of early structural and functional human brain development**

C.R. ALMLI

**C010 Effect of low doses of ionizing radiation on neurite outgrowth and neuronal survival**

N. SAMARI, G. PANI, L. DE SAINT-GEORGES, S. BAATOUT, L. LEYNS & R. BENOTMANE

**C011 A role for dynamic actin in the development and maintenance of the dendritic arbor**

G.S. WITHERS, D.D. BRANDNER & G.R. STERNE

- C012** Expression analysis of  $\alpha 1A$  and  $\alpha 1D$  voltage operated calcium channels subunits throughout the fetal bovine hypothalamus  
A. PERUFFO, M. GIACOMELLO, M. SUMAN, S. MONTELLI, B. COZZI & C. BALLARIN
- C013** Synapse formation and dendritic development in vitro are influenced by astrocytes in a contact dependent manner  
C.S. WALLACE, K. CHORY, J.R. STERRITT, J. GUGGENHEIM & G.S. WITHERS
- C014** Effect of prenatal hypothyroidism on the dendritic arborization pattern of trigeminal motoneurons during postnatal development  
F. GANJI & H. SEPEHRI
- C015** Roles of innexins in gangliogenesis, process retraction and specification of electrotonic circuitry  
E. MACAGNO, C. FIRME, M. BAKER, A. SANCHEZ, B. KANDARIAN, W. ALLAN, J. SETHI & T. GAASTERLAND
- C016** 5-HT<sub>1A</sub> and 5-HT<sub>2B</sub> serotonin receptors in neurite outgrowth: involvement of EGR-1  
T. ANELLI, S. CARDARELLI, M. ORI, I. NARDI, G. POIANA & S. BIAGIONI
- C017** PI(4,5)P<sub>2</sub> regulates neuronal dendritic outgrowth through the PDZ interaction between preso and beta-pix  
H.W. LEE, J. MO, D. LEE, S. HONG, S. HAN, H. YEO, I.J. RHYU, E. KIM & H. KIM
- C018** Synaptophysin expression in the cerebellar granular layer of prenatally stressed rats reared in different conditions  
E. ULUPINAR & H. AY
- C019** A comparative neuroanatomical study of the hypothalamus in cichlids and other teleosts  
M. BOROOMANDI & M. HOFMANN
- C020** Do the quantitative GABAergic neurons in the rostral thalamic reticular nucleus of genetic absence epilepsy rats from Strasbourg (GAERS) differ developmentally from those in normal control Wistar rats  
S. CAVDAR, H. HACIOGLU, S.D. YILDIZ & F. ONAT
- C021** Comparative histological study of the visua irelay centers in the hedgehog *Atelerix albiventris* and the pangolin *Manis tricuspis*  
A.J. DAVID
- C022** Discriminant analysis of brain adrenoceptor profiles during adult sex reversal in hermaphrodite teleost fish  
B. ZIKOPOULOS, G. POTAMIAS & C. DERMON
- C023** The transcription factor REST is a novel molecular target for the neurotoxic effect of the polychlorinated biphenyl mixture Aroclor 1254 in neuroblastoma SH-SY5Y cells  
L. FORMISANO, N. GUIDA, S. COCCO, A. SECONDO, R. SIRABELLA, L. ULIANICH, F. PATURZO, G. DI RENZO & L.M. CANZONIERO
- C024** Subtle and disease specific structural patterns in human Neurofibromatosis type 1 confirm findings from the animal model  
J. DUARTE, M. RIBEIRO, I. VIOLANTE, G. CUNHA, E. SILVA & M. CASTELO-BRANCO
- C025** Genoarchitectonic delimitation of the avian dorsal pallium (hyperpallium, Wulst) from neighbouring pallial domains  
J.E. SANDOVAL, A. ALONSO, A. AYAD, M. MARTÍNEZ-DE-LA-TORRE, J.L. FERRAN & L. PUELLES
- C026** Identifying the relationship of mesencephalic raphe nuclei with hippocampus and lateral septum in the rat brain  
G. HASSANZADE, T. GHADIRI GARJAN & G. BEHZADI
- C027** Lactate effectively covers energy demands and maintains synaptic function during network activity in neonatal hippocampal slices  
A. IVANOV, M. MUKHTAROV, P. BREGESTOVSKI & Y. ZILBERTER
- C028** BMPs regulate neuronal cells in traumatic spinal cord injury by agmatine  
Y.M. PARK, S.K. SEO, K.A. PARK, J.E. LEE\* & W.T. LEE\*
- C029** Novel beta-dystroglycan-associated protein complex in nuclei of cerebral cortex neurons  
D. MARTÍNEZ-ROJAS, R. RODRIGUEZ-MUÑOZ, V. ALEMÁN, O. CHÁVEZ-GONZÁLEZ & A. RENDON
- C030** Nuclear choline acetyltransferase activates transcription of a high-affinity choline transporter  
A. MATSUO, J.-P. BELLIER, M. NISHIMURA, O. YASUHARA, N. SAITO & H. KIMURA
- C031** Investigating the role of Sorting Nexin 8 in the central nervous system  
G. MUIRHEAD & K.K. DEV
- C032**  $\alpha$ -2 subunit of nicotinic cholinergic receptor is expressed in the medial extended amygdala  
A. POMBERO & S. MARTINEZ
- C033** What's happening in the brain of exercising ZDF rats, animal model for diabetes ?  
S.S. YI, J.H. SHIN, S.M. NAM, I.K. HWANG, W. SONG, Y.S. YOON & J.K. SEONG
- C034** Simultaneous Golgi-Cox and immunofluorescence labeling in brain slices by confocal microscopy  
S. SPIGA, G. MULAS & M. DIANA
- C035** Versatile roles of a molecular motor myosin Va in the cerebellum  
Y. TAKAGISHI
- C036** High levels of dopamine transporter and NMDAR1 receptor in prefrontal cortex of Naples high-excitability rats, an animal model of ADHD: effects of intranasal dopamine or MK-801  
C. PAGANO, P. ILLIANO, A. TINO, A. AMBROSONE, L.A. RUOCCO, C. TRENO, C. MATTERN, M.A. DE SOUZA SILVA, J.P. HUSTON & A.G. SADILE



## POSTER PRESENTATION

- C037** **Morphometric study of the HuC/HuD and nNOS neurons of the duodenum of rats with acute diabetes treated with insulin**  
S. TRANNIN DE MELLO, M. HUBNER DE MIRANDA NETO, J. NELISIS ZANONI & S. LUCY MOLINARI
- C038** **New neuronal targets of  $\beta$ -catenin~LEF1/TCF**  
M.B. WISNIEWSKA, A. NAGALSKI, M. DABROWSKI & J. KUZNICKI
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- 03. Glia (Astrocytes)**
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- C039** **Expression and regulation of Interleukin-20 receptor A (IL-20RA) in C57BL/6 mice astroglial cells**  
B. ABD NIKFARJAM
- C040** **Astrocytes have a more efficient glyoxalase system than neurons: implications for methylglyoxal cytotoxicity**  
M. BÉLANGER, T. LAROCHE, I. ALLAMAN & P.J. MAGISTRETTI
- C041** **Expression and function of glycine transporters, GlyT1 and GlyT2, in rat astrocytes**  
R.I. AROEIRA, J.A. RIBEIRO, A.M. SEBASTIÃO & C.A. VALENTE
- C042** **Glial purinergic signalling modulates extracellular K<sup>+</sup> regulation and axonal conduction in CNS white matter**  
V. BAY, P. HURST & A. BUTT
- C043** **Pharmacological characterization and single-cell gene expression profiling of two astrocytic populations responding with different volume changes to oxygen-glucose deprivation**  
J. BENESOVA, V. RUSNAKOVA, P. HONSA, H. PIVONKOVA, M. KUBISTA & M. ANDEROVA
- C044** **Nitric oxide as well as coculture with b.End3 cells stabilizes HIF-1alpha and induces HIF-1alpha target genes in primary astrocytes**  
B. BRIX, L. PELLERIN & O. JÖHREN
- C045** **Purification and differentiation of astrocyte precursor cells from the mouse optic nerve**  
S. HONG, Y. IIZUKA, C.Y. KIM & G.J. SEONG
- C046** **NICD/RBPJ $\kappa$  activation during astrocytic differentiation in C6 cells**  
C. ANGULO-ROJO, B. MEZA-BAYGHEN, A. ORTEGA & E. LOPEZ-BAYGHEN
- C047** **Brain glycogen could decrease with high-intensity intermittent exercise without hypoglycemia: possible role of brain monoamines**  
T. MATSUJI, S. SOYA, T. ISHIKAWA, M. OKAMOTO, Y. ICHITANI, K. KAWANAKA & H. SOYA
- C048** **Phosphorylation of rat glial glutamine transporter SN1 at Ser52 by protein kinase C induces its internalization**  
L.S.H. NISSEN-MEYER, E.H. HAMDANI, M.C. POPESCU & F.A. CHAUDHRY
- C049** **Immunogold localization of connexin 43 in astrocytes: localization of hemichannels close to synapses**  
L. ORMEL & V. GUNDERSEN
- C050** **Cyclic nucleotide-gated channels are expressed in rat cortical astrocytes**  
M.V. PODDA, L. LEONE, R. PIACENTINI, M. D'ASCENZO & C. GRASSI
- C051** **Response of cochlear nucleus astrocytes to monaural conductive hearing loss**  
H. WANG, S. HUI-PIN, E. COTE, J. PANDERVILLE & M.E. RUBIO
- C052** **The involvement of gliotransmitters on basic nociception and the development of inflammatory pain**  
M. SLEZAK, W. MAKUCH, E. ROJEWSKA, B. PRZEWLOCKA & R. PRZEWLOCKI
- C053** **Extracellular Glutamate-GABA balance in the cerebral cortex**  
P. UNICHENKO, O. MYAKHAR & S. KIRISCHUK
- C054** **Metabotropic glutamate receptors mediate calcium signals in CNS white matter glia**  
I. VANZULLI & A.M. BUTT
- C055** **Alterations in astrocytic aquaporin 4 expression in the brain of hSOD1<sup>G93A</sup> ALS rat model**  
D. BATAVELJIĆ, A. KORENIĆ, M. AMIRY-MOGHADDAM & P.R. ANDJUS
- C056** **nNOS inhibition reduces hippocampal astrocyte activation and interictal spikes 72 hours following kainic acid-induced status epilepticus in mice**  
E. BEAMER, G. SILLS & T. THIMMASETTAPPA
- C057** **Upregulation of kruppel-like factor 6 in reactive astrocytes is correlated with that of HSP47 in the mouse hippocampus after pilocarpine-induced status epilepticus**  
K.H. JEONG, K.-E. LEE, K.-O. CHO & S.Y. KIM
- C058** **CXCL16, acting on astrocytes, prevents glutamate excitotoxic cell death in hippocampus**  
M. ROSITO, C. DEFLORIO, F. TRETTEL & C. LIMATOLA
- C059** **The functional expression of TRPV4 channels is significantly increased in reactive hippocampal astrocytes seven days after cerebral hypoxia/ischemia**  
O. BUTENKO, D. DZAMBA, I. PRAJEROVA, J. BENESOVA, V. BENFENATI, S. FERRONI & M. ANDEROVA
- C060** **Ischemia-preconditioned neurons protect astrocytes against ischemia via upregulation of erythropoietin**  
Y. KE, X. WU, X. HE & Q. GONG
- C061** **Beta-amyloid peptide induces upregulation of purinergic and glutamate signalling in astrocytes in the rat brain**  
A. GONZALO-RUIZ, B. MARTIN, S. DELSO, M. SANZ-ANQUELA & P. GONZALO

- C062** CCAAT/enhancer binding protein  $\delta$  is differently regulated by fibrillar and oligomeric forms of the Alzheimer amyloid- $\beta$  peptide  
V. RAMBERG, L. TRACY, M. SAMUELSSON, L.N.G. NILSSON & K. IVERFELDT
- C063** Astrocyte-microglia interactions in the response to inflammatory stimuli  
L. FACCI, M. BARBIERATO, P. GIUSTI & S.D. SKAPER
- C064** Progressive deposition of osteopontin and calcium in the hippocampus following transient forebrain ischemia in rats  
Y.-J. SHIN, J.-M. PARK, H.L. KIM, J.-Y. CHOI, J.-H. CHA & M.-Y. LEE
- C065** GLP-1 expression in glial cells  
L.M. TRACY, C. KAPPE, C. PATRONE, Å. SJÖHOLM & K. IVERFELDT
- C066** Regulation of the neuroinflammatory response by glial cells: cytokines and SRs dependent crosstalk of astrocytes and microglial cells  
R. VON BERNHARDI, P. MURGAS, B. SOLER, G. RAMÍREZ & B. FLORES
- C067** Different effects of infections and proinflammatory cytokine response on mouse astrocytes and microglia induced by coxsackieviruses A16 and B3  
G. WANG, J. ZENG, W. LI, D. ZHANG, X. CHEN & K. LI
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- 06.** Excitable membranes & ion channels (Trafficking, mechanisms & methods)
- 
- C068** Cav3.2 ubiquitination and degradation by the ER-associated degradation (ERAD) pathway  
A. GARCIA CABALLERO & G.W. ZAMPONI
- C069** Modulation of the L-type  $Ca_v1.3$  channel by the nitric oxide-cGMP protein kinase G signaling pathway  
M.A. GANDINI, A. SANDOVAL, A. ALMANZA, A. ANDRADE, E. SOTO & R. FELIX
- C070** C-terminal membrane associability of Bestrophin 3 affects its activation as a chloride channel  
X. HAN, Z. QU, H. JIA, R. HUAI & S. ZHU
- C071** TSC22D1 regulates cerebellum granule neurons differentiation by interacting with TSC22D4 and BKCa potassium channels  
V. CARLETTI, S. CANTERINI, S. NUSCA, F. MANGIA & M.T. FIORENZA
- C072** KIF21A mediates the axonal transport of NCKX2  
K.-H. LEE, D. LEE, W.-K. HO & S.-H. LEE
- C073** Glucose-6-phosphate selectively decreases calcium accumulation in rat brain endoplasmic reticulum  
D.C. MCMULLEN, W.S. KEAN, A. VERMA, J.T. COLE & W.D. WATSON
- C074** On the mechanism of glutamate-induced delayed mitochondrial depolarization in brain neurons  
A.M. SURIN, V.G. PINELIS, I.A. KRASILNIKOVA, L.S. KHIROUG, D. CHUDAKOV & B.I. KHODOROV
- C075** P2Y receptor-evoked enhancement of calcium-activated potassium currents in neonatal rat striatal slices  
E. COPPI, F. PEDATA & A. GIBB
- C076** AMPA receptor regulation at the mRNA and protein level in rat primary cortical cultures  
C. ORLANDI, L. LA VIA, D. BONINI, C. MORA, I. RUSSO, A. BARBON & S. BARLATI
- C077** Transmembrane AMPA receptor regulatory protein  $\gamma$ -8 is involved with the regulation of spontaneous activity and mental condition  
M. YAMAZAKI, M. FUKAYA, K. AKASHI, A. AIBA, M. WATANABE & K. SAKIMURA
- C078** Role of intracellular ions in Gat1 reverse transport  
F. CHERUBINO, S. BERTRAM, E. BOSSI & A. PERES
- C079** Effects of estradiol and IGF-1 on the sodium-calcium exchanger (NCX) in rat cortical neurons  
J.C. SÁNCHEZ, D.F. LÓPEZ-ZAPATA, L.M. DE LOS REYES & L. FRANCIS
- C080** Surface traffic of dendritic  $Ca_v1.2$  calcium channels in hippocampal neurons  
V. DI BIASE, M. HEINE, P. TULUC, M. CAMPIGLIO, G.J. OBERMAIR & B.E. FLUCHER
- C081**  $PIP_2$ -mediated HCN3 channel gating is crucial for rhythmic burst firing in thalamic neurons  
S.-W. YING, G.R. TIBBS, A. PICOLLO, S.Y. ABBAS, R.L. SANFORD, A. ACCARDI, F. HOFMANN, A. LUDWIG & P.A. GOLDSTEIN
- C082** Acquisition of neuron-like electrophysiological properties in neuroblastoma cells by controlled expression of NDM29 ncRNA  
P. GAVAZZO, V. SERENA, C.F. MARCHETTI, M. NIZZARI, R. CANCEDDA & A. PAGANO
- C083** Subcellular localization of VDAC (porin) in noradrenaline-storing organelles in *Locus Coeruleus* neurons of human control brain  
I. KLOUKINA-PANTAZIDOU, S. HAVAKI, M. CHRYSANTHOU-PITEROU & M.R. ISSIDORIDES
- C084** Nitric oxide effects on acid sensitive ion channels depend on their state and subunit composition  
N.A. DOROFEEVA, S.M. SWAIN, M.V. NIKOLAEV, N.N. POTAPJEVA, A.K. BERA & K.V. BOLSHAKOV
- C085** Specific interaction of TSC22D4 forms with chromatin, mitochondrial apoptosis inducing factor and nuclear matrix in differentiated and apoptosis-committed cerebellum granule neurons  
S. CANTERINI, V. CARLETTI, F. MANGIA & M.T. FIORENZA



## POSTER PRESENTATION

- C086** Trafficking of HCN1 channels in the postnatal rat hippocampus  
J. BARRY & S. SIEGELBAUM
- C087** Modulation of spike firing in mesencephalic trigeminal nucleus neurons via protein kinase C dependent pathway  
G. CHUNG, J.S. KIM, Y. KANG & S.B. OH
- C088** Optical imaging of calcium waves evoked by infrared neural stimulation in the rat brain  
J. CAYCE, M. BOUCHARD, E.D. JANSEN, E. HILLMAN & A. MAHADEVAN-JANSEN
- C089** Chloride 2-photon imaging  
S. SULIS SATO, L. MARIOTTI, D. AROSIO, G. BONY, M. BRONDI, D. CAMILLO, L. CANCEDDA & G.M. RAITTO
- C090** Electrophysiological characterization of a novel small peptide from the venom of *Conus californicus* that targets voltage-gated neuronal Ca<sup>2+</sup> channels  
O. LÓPEZ, J. BERNALDEZ, A. LICEA, E. SALCEDA, R.O. ARELLANO, R. VEGA & E. SOTO
- C091** Patterned optical activation of channelrhodopsin-expressing neurons and neural circuits: multi-independent light stimulation system (MILSS)  
S. SAKAI, K. UENO, T. HONJOH, T. ISHIZUKA & H. YAWO
- C092** Genetically encoded Cl<sup>-</sup> Sensor as a tool for studying Cl<sup>-</sup> distribution in neurons  
T.V. WASEEM, M. MUKHTAROV, S. BULDAKOVA, I. MEDINA & P. BREGESTOVSKI
- C093** The molecular determinants involved in ion flux regulation of channelrhodopsins  
S. TANIMOTO, H. WANG, Y. SUGIYAMA, T. ISHIZUKA & H. YAWO
- C094** Improved component analysis of seemingly single-peak compound action potentials of rat and mouse spinal cord white matter  
A. VELUMIAN, M. SAMOILOVA & M.G. FEHLINGS
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- 08. Neural plasticity (Pharmacology & disease)**
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- C095** Full and conditional CB1 receptor knock-outs in the amphetamine sensitization model in mice  
E. ANDERZHANOVA, A.L. TERZIAN & C.T. WOTJAK
- C096** Chronic cocaine treatment induces neuroplasticity on central nicotinic receptors  
H.R. SILVA, S. BARBOSA, L.L.S. COSTA, E.A. ARAUJO, C.A. TIEPPO & C. LOPES
- C097** Evidence for structural plasticity of visual cortical representations in a human model of ganglion cell death  
O. C. D'ALMEIDA, C. MATEUS & M. CASTELO-BRANCO
- C098** High-fat diet-induced obesity impairs the dendritic morphology of hippocampal pyramidal neurons in mice with sex difference  
L.-C. CHIOU, S.-F. TENG, L.-J. LEE, C.-P. CHEN, C.-T. CHEN, L.-L. HWANG & I.-K. HO
- C099** Developing a novel platform for studying, in vivo, the neural response to traumatic brain injury  
J. CHUCKOWREE & T. DICKSON
- C100** Matrix metalloproteinase inhibition attenuates detrimental effect of ischemic stroke on cortical plasticity: in situ visualization of metabolic and gelatinolytic activity  
A. CYBULSKA-KLOSOWICZ, M. LIGUZ-LECZYNAR, D. NOWICKA, M. KOSSUT & J. SKANGIEL-KRAMSKA
- C101** Acute effects of Modafinil on the brain resting state in young healthy subjects  
R. ESPOSITO, F. CILLI, V. PIERAMICO, A. TARTARO, G.L. ROMANI & S.L. SENSI
- C102** Effect of chronic treatment with grape juice Bordeaux variety on biochemical and neurochemical parameters in rats supplemented with high fat diet  
C. FUNCHAL, D. LACERDA, M. DE ALMEIDA, C. TEIXEIRA, A. DE JESUS, É. PEREIRA JÚNIOR, R. ANDRADE, T. GEMELLI, P. BOCK, C. WANNMACHER, J.A. HENRIQUES, C. DANI & R. GOMEZ
- C103** Combined oxaloacetate mediated glutamate scavenging and dehydroepiandrosterone treatment decreases neuronal loss and restores impaired synaptic plasticity after ischemic stroke  
J. FUZIK, M. MAROSI, L. KNAPP, G. OLÁH, D. NAGY, L. GELLÉRT, K. KOCSIS, T. FARKAS & J. TOLDI
- C104** Perilesional treatment with chondroitinase ABC and rehabilitation promote motor skill recovery and synaptic plasticity after focal stroke in rats  
L. GHERARDINI, M. GENNARO & T. PIZZORUSSO
- C105** Lasting synaptic changes underlie attention deficits caused by nicotine exposure during adolescence  
N.A. GORIUNOVA, D.S. COUNOTTE, T. PATTIJ, S. SPIJKER & H.D. MANSVELDER
- C106** Theta pulse stimulation: a natural stimulus pattern can alter NMDA receptor subunits composition in hippocampus area CA1 of morphine dependent rats  
N. HOSSEINMARDI, Y. FATHOLLAHI, M. JAVAN & N. NAGHDI
- C107** Synergistic effects of sodium butyrate, a histone decetylase inhibitor, and pyridoxine on cell proliferation and neuroblast differentiation in the dentate gyrus of aging model  
D.Y. YOO, W. KIM, S.M. NAM, J.Y. CHUNG, J.H. CHOI, Y.S. YOON & I.K. HWANG



- C108** The effect of TRPV1 antagonist and CB1 agonist on kindling model of seizure in rats  
S. KHAKSAR, P. KAHALI, N. NADERI & F. MOTAMEDI
- C109** Impaired short-term plasticity caused by mitochondrial dysfunction is the earliest synaptic deficit in a mouse model of Alzheimer's disease  
K.R. KIM, S.H. LEE, S.-Y. RYU, S. SON, H.S. HONG, I. MOOK-JUNG, S.-H. LEE & W.-K. HO
- C110** Effect of paired associative stimulation on corticomotor excitability in chronic smokers  
A.P. LAVENDER, H. OBATA, N. KAWASHIMA & K. NAKAZAWA
- C111** Changes of synapses in the CA1 area under ischemic injury  
Y. RUAN, Z. SHI, X. HAN, Z. LEI & Z.C. XU
- C112** Examining post-ischemic neuroplasticity following a novel, appetitively-motivated form of movement therapy in the rat  
J.M. LIVINGSTON-THOMAS, T.A. DOUCETTE & A.R. TASKER
- C113** Participation of orexin system in the behavioural sensitization induced by ethanol in male mice  
G.C. MACEDO, S.E. KAWAKAMI, T. VIGNOLI, R. SINIGAGLIA COIMBRA & D. SUCHECKI
- C114** Caffeine regulates corticostriatal dopamine transporter density and improves attention deficits in an animal model of attention deficit hyperactivity disorder (ADHD)  
P. PANDOLFO, N. MACHADO, A. KÖFALVI, R. TAKAHASHI & R. CUNHA
- C115** Acute application and chronic application of methylphenidate influence long-term potentiation in rat hippocampus slices in opposite ways  
B. MORALES, A. ARIAS-CAVIERES, C. ROZAS, S. LOYOLA, C. SANCHEZ, G. UGARTE, F. MAUREIRA, P. ROJAS & M. ZEISE
- C116** Hippocampal branching pattern, spine density and protein expression are affected by chronic restraint stress  
D. ORLOWSKI, B. ELFVING, H.K. MÜLLER, G. WEGENER & C.R. BJARKAM
- C117** Blockade of phrenic long term facilitation by microinjections of the 5-HT<sub>1A</sub> receptor antagonist WAY-100635 into the raphe nucleus of the rat  
I. PAVLINAC, R. PECOTIC, Z. DOGAS & M. VALIC
- C118** Low-dose domoic acid induces subfield-selective injury and triggers cell proliferation and neurogenesis in organotypic hippocampal cell cultures  
A. PEREZ-GOMEZ & R.A. TASKER
- C119** Modulation of hippocampal glutamatergic currents after acute glucocorticoid exposure in a mice model of early life stress  
A.G. PILLAI, H. KRUGERS, F. HOLSBOER, M. SCHMIDT & M. JOELS
- C120** A longitudinal analysis of structural brain changes in chronic pain  
R. RODRIGUEZ-RAECKE, A. NIEMEIER, K. IHLE, W. RUETHER & A. MAY
- C121** Reduced cell proliferation and neuroblast differentiation in the dentate gyrus of high fat diet-fed mice is ameliorated by metformin and glimepiride treatment  
D.Y. YOO, W. KIM, S.M. NAM, J.H. CHOI, I.K. HWANG, Y.S. YOON & K. SEO
- C122** Chronic restraint stress causes a reduction in neuroligin-2 distribution in rat hippocampus  
I.V. KRAEV, M. FANTIN, N. MEDVEDEV, C. SANDI & M.G. STEWART
- C123** Protein kinase Mzeta inhibitor (ZIP) alters cocaine sensitization initiation and expression and decreases VTA AMPA mediated currents  
M.E. VELEZ-HERNANDEZ, R. VAZQUEZ-TORRES, M.C. VELASQUEZ-MARTINEZ, T. SACKTOR & C.A. JIMENEZ-RIVERA
- C124** Agmatine reduces brain apoptosis, astrogliosis, and edema after transient cerebral ischemia in rats  
C.-C. WANG, C.-C. CHIO, J.-R. KUO, B.-C. CHENG, M.-T. LIN, Y.-C. HUNG & C.-P. CHANG
- C125** Activation of microglia and increases in inflammatory cytokines in the hippocampus of type 2 diabetic rats  
S.M. NAM, D.Y. YOO, W. KIM, S.S. YI, I.K. HWANG, J.K. SEONG & Y.S. YOON
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- 09. Neuroendocrine & autonomic regulation (Hormones, salt & water balance)**
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- C126** Sexually dimorphic effects of estrogen on dendritic spines of granule cells in cultures of rat accessory olfactory bulb  
Y. WU, K. MORIYA-ITO, T. IWAKURA, A. TSUTIYA, M. ICHIKAWA & R. OHTANI-KANEKO
- C127** Effects of ER $\alpha$  and  $\beta$  agonists, estrogen and androgen on number of ER  $\alpha$ -immunoreactive cells in the hypothalamus of female rats  
M. KANAYA, O. AYAKO & K. YAMANOUCHI
- C128** Effects of unilateral lesion of ventromedial hypothalamus on densities of estrogen receptor- $\alpha$  immunoreactive cells in intact side  
Y. SHIMOGAWA & K. YAMANOUCHI
- C129** Highly induction of the hippocampal DHT (dihydrotestosterone) in response to treadmill running in male rats  
M. OKAMOTO, Y. HOJO, K. INOUE, T. MATSUI, S. KAWATO & H. SOYA
- C130** Xenoestrogens and anxiety in mice: sexually dimorphic effects of postnatal exposure to genistein  
A. RODRIGUEZ GOMEZ, B. FOGGIO, F. FILICE & G. PANZICA



## POSTER PRESENTATION

- C131** Differential effects of the section of dorsal connections to the anterior hypothalamus on FSH and LH surge secretion  
R. DOMÍNGUEZ, E. CABRERA, M. CÁRDENAS, A. FLORES & M.-E. CRUZ
- C132** Gonadotropin-releasing hormone (GnRH) agonist enhances GnRH receptor-1 gene expression in the hypothalamus of neonatal male rats  
N.N. DYGALO, T.S. KALININA, T.V. SHEMENKOVA & G.T. SHISHKINA
- C133** Valproic acid mediates disruption in hypothalamo-hypophyseal gonadal axis by upregulating GAD65 and GAD67  
D. LAKHANPAL & G. KAUR
- C134** Variations in the neuroendocrine profile of mother rats with overlapped-litters might account for the adaptations in their maternal behavior  
N. URIARTE, D. AGRATI, M.J. ZULUAGA, O. GONÇALVES, A. FERREIRA & A. LUCION
- C135** Oxytocin is required for acquisition of odor preference in the female rat toward pups  
A. MUNETOMO, Y. KONDO, T. MIYAMOTO & Y. SAKUMA
- C136** The ability of glucocorticoids to induce tyrosine hydroxylase gene expression changes in parallel to the ratio of jun/fos mRNA levels in the perinatal rat brainstem  
T. KALININA, G. SHISHKINA & N. DYGALO
- C137** Deletion of ghrelin alters the response of Edinger-Westphal nucleus to restraint stress in the mouse  
L. XU, B. GEENEN, S.J. SPENCER, Z.B. ANDREWS, E.W. ROUBOS & T. KOZICZ
- C138** Retinohypothalamic projections to LH are involved in the light-mediated modulation of wakefulness through interaction with orexinergic and endocannabinoid systems  
B. IMPERATORE, A. IOVINE, A. DI NUNZIO, I. FERRANDINO, V. DI MARZO & L. CRISTINO
- C139** Exposure to chronic stress and air pollution are related with open field behavior and oxidative stress?  
G.D. GAMARO, G. PORTELLA, L.S. FAGUNDES, M.R. PIVA & C.R. RHODEN
- C140** Chronic restraint stress decreases 5-HT<sub>7</sub> receptor expression in the rat hypothalamic paraventricular nucleus  
B.B. GARCÍA-IGLESIAS, M.E. MENDOZA-GARRIDO, G. GUTIERREZ-OSPINA & J.A. TERRÓN
- C141** Glucocorticoids disrupt neuroendocrine and behavioral responses during lactation  
F.C. VILELA & A. GIUSTI-PAIVA
- C142** Influence of Neurotrophin-3 on Na<sup>+</sup>-current regulation by thyroid hormone  
B.A. IGHORST, C. BUSSE, M. LANGE, V. NIEDERKINKHAUS & I.D. DIETZEL
- C143** Hyperthyroidism alters glutamate uptake and modulates cytoskeleton dynamics by altering MAPK signaling pathways in cerebral cortex of immature rats  
A. ZAMONER, P.B. GOULART, S. TCHERNIN WOFCHUK, F.R.M.B. SILVA & R. PESSOA-PUREUR
- C144** Hypo- and hyperthyroidism affect neuropeptide glutamic-acid-isoleucine (NEI) concentration in discrete brain areas of adult male rats  
C. AYALA, S.R. VALDEZ, M.L. NAVARRA MORERO, M. SOAJE, N.B. CARREÑO, M.S. SANCHEZ, J.C. BITTENCOURT, G.A. JAHN & M.E. CELIS
- C145** Hyperthermia induced by sleep deprivation: possible involvement of IL-1 $\beta$   
V.L. GOMES, B.D. PALMA, L.A. ESUMI, S. TUFIK & D.C. HIPOLIDE
- C146** Effects of menstrual cycle on disturbance of automatic nervous system caused by sleep deprivation  
J.-S. WANG
- C147** Regulation of sodium potassium ATPase subunits by thyroid hormone in cortical cultures from neonatal rat brain  
S. MOHANASUNDARAM, D. TURCU & I.D. DIETZEL
- C148** 3-iodothyronamine, a pharmacological modulator of the hypothalamus-pancreas-thyroid axes in mice  
M.E.M.M. MANNI, G.D.S. DE SIENA, I.D. DICEMBRINI, E. BIGAGLI, L.C. CINCI & M.L. LODOVICI
- C149** Collapsin response mediator protein-4 (CRMP4) affects dopaminergic neurons in the AVPV  
M. SAKOH, T. IWAKURA, A. TSUTIYA, N. YAMASHITA, T. SHIGA, Y. GOSHIMA & R. OHTANI-KANEKO
- C150** Effects of flavonoids on catecholamine synthesis and secretion in cultured bovine adrenal medullary cells  
N. YANAGIHARA, H. ZHANG, Y. TOYOHIRA, S. UENO & M. TSUTSUI
- C151** A new player in the regulation of suckling-induced prolactin release in rat  
M. CSERVENAK, I. BODNÁR, T.B. USDIN, M. PALKOVITS, G.M. NAGY & A. DOBOLYI
- C152** Beta-ENDORPHIN: effects by volume-transmission via the CerebroSpinal Fluid (CSF)  
J.G. VEENING & H.P. BARENDREGT
- C153** Some parameters of the immune system activity are modulated by ECS, a non-pharmacological antidepressive treatment  
E. KLIMEK, A. ROMAN, J. KU MIERCZYK & I. NALEPA

- C154** P2X4 and P2X7 ATP receptors are involved in control of the respiratory rhythm in mouse neonates  
J.L. EUGENIN, C. CODDOU, E.U. BRAVO, S. BELTRÁN, C. CAPELLI, C. ACUÑA & I. LLONA
- C155** Modulation by catecholamines of lipopolysaccharide-induced peritoneal macrophages' activity in rats treated with electroconvulsive shock  
J. KUSMIERCZYK, A. ROMAN, E. KLIMEK & I. NALEPA
- C156** The antipyretic effects of IL-1 receptor antagonist on lipopolysaccharide-induced fever in rabbits  
K.-C. LIN, C.-U. CHEONG, C.-M. CHAO, J.-W. LIN, M.-W. CHANG, C.-C. WANG, M.-T. LIN, C.-Z. YANG, C.-C. HSU, C.-P. CHANG & C.-C. CHIO
- C157** Downregulation of the cough reflex by clonidine in the rabbit  
E. CINELLI, F. BONGIANNI, D. MUTOLO & T. PANTALEO
- C158** Electroacupuncture stimulation alleviates poloxamer 407-induced hyperlipidemia by regulating HMG-Co A reductase and LDL-receptor expression in rats  
J. PARK, B. LEE, C.S. YIN, H.-J. LEE & D.-H. HAHM
- C159** Concurrent recording of spontaneous fluctuations in skin sympathetic nerve activity and whole-brain fMRI signal intensity in awake humans  
V.G. MACEFIELD, C. JAMES & L.A. HENDERSON
- C160** Neurogenic and myogenic mechanisms of intestinal motility  
M. COSTA, N. SPENCER & S. BROOKES
- C161** Somnogenic PGD<sub>2</sub> is expressed by the leptomeninges in the brain  
Y. CHÉRASSE, M. LAZARUS, Y. OISHI, Y. URADE & O. HAYAISHI
- C162** Chronic ethanol treatment increases hypothalamic AVP and OT mRNA expression  
A. LOPES DA SILVA, E.T. UCHOA, L.L. ELIAS, L.B. RESSTEL & J. ANTUNES-RODRIGUES
- C163** Localization of vesicular nucleotide transporter in the central nervous system  
E.P. KO-MITAMURA, M. LAZARUS, Y. MORIYAMA & Y. URADE
- C164** Insulin-regulated aminopeptidase (IRAP) identification in the rat pineal gland and the angiotensin IV effect on melatonin synthesis  
S.C. AFECHÉ, M.V. ABRAHÃO, F.G. AMARAL, R. PERES & J. CIPOLLA-NETO
- C165** Neuropeptides and nitric oxide in the brain of a disease vector insect  
B.P. SETTEMBRINI, A. TORBIDONI, A. GONZALEZ & G.L. GALVANI
- C166** *Aegle marmelose* modulates pancreatic regeneration through PDX 1 expression in streptozotocin induced diabetic rats  
M. ANITHA, J. SADANANDAN, N. MOHAN SHOBANA & P. CHIRAMADATHIKUDIYIL SKARIA
- C167** Postsynaptic CO<sub>2</sub> responses and histological characteristics of Phox2b-positive parafacial neurons in newborn rat medulla  
H. ONIMARU, K. IKEDA & K. KAWAKAMI
- C168** Anti-inflammatory effect of vagus nerve stimulation in a rat model: a mechanistic study  
C. PICQ, V. SINNIGER, J.-F. MAYOL, D. CLARENCON & B. BONAZ
- C169** Identification of distinct median preoptic neurons encoding osmotic and thermal signals  
D. MARTELLI, M.L. MATHAI, R.M. MCALLEN & M.J. MCKINLEY
- C170** Water avoidance stress activates central neurons in mice: modulation by colitis  
F. REICHMANN, M.E. EDELSBRUNNER & P. HOLZER
- C171** Oxytocin potentiates the increased water intake induced by polyethylene glycol administration  
A. BERNAL, J. MAHÍA, C. MEDIAVILLA & A. PUERTO
- C172** Sodium appetite behavior in offspring of female rats supplemented with sodium selenite during pregnancy and lactation  
W.S. CORTES, R.L. MELO, G.E. IMPÉRIO, G.E.G. KLUCK, C.S. ALMEIDA & L.C. REIS
- C173** Cholinergic mechanisms of the subformal organ are involved on sodium intake induced by gabaergic activation of the lateral parabrachial nucleus  
C.F. RONCARI, R.B. DAVID, L.A. DE LUCA JR, D.S.A. COLOMBARI, P.M. DE PAULA & J.V. MENANI
- C174** Role of NMDA, AMPA and AT1 receptors in hemorrhage-induced AVP secretion  
A.S. MECAWI, T. VILHENA-FRANCO, L.L.K. ELIAS & J. ANTUNES-RODRIGUES
- C175** Morphological and quantitative analysis of neurons in lateral human hypothalamus and distribution of OX1R receptors  
D. MYTILINAIOS, K.I. TSAMIS & S.J. BALOYANNIS
- C176** Distribution of oxytocin receptors in the forebrain of ewes  
D.E. OLAZABAL
- C177** Intracisternal injection of L-cysteine activates hypothalamic vasopressin neurons in freely moving rats  
Y. TAKEMOTO
- 
- 10. Pain (Inflammation & other mechanisms)**
- C178** Antinociceptive and anti-inflammatory activities of essential oil of *nepeta crispa* in experimental rat models  
T. ALI, M. JAVAN, A. SONBOLI, S. SEMNANIAN & N. BEGUM
- C179** Interleukin-1 Receptor Type I activation in DRG contributes to inflammatory hyperalgesia in the peripheral tissue  
D. ARALDI, A.S. VIEIRA, E.V. DIAS & C.A. PARADA



## POSTER PRESENTATION

- C180** Chronic paracetamol treatment induce an increment in pro-inflammatory cytokines and vascular cell adhesion molecules via NF kappa B signaling in rats with cortical spreading depression  
C. CHANTONG, T. THONGTAN, A. SRIKIATKHACHORN & S. MANEESRI-LE GRAND
- C181** Glucosylceramide has anti-inflammatory and anti-eczema effects on oxazolone - induced contact dermatitis in mice  
S.-H. KIM, M. YEOM, H. LEE & D.-H. HAHM
- C182** Role of dopamine receptors of the Nucleus Accumbens on the inflammatory pain  
E.V. DIAS, A.S. VIEIRA & C.A. PARADA
- C183** Effects of neonatal noceptive inflammatory stimuli on hippocampal dentate granule cell proliferation are gender-specific  
M.A. LIMA, R. GUINSBURG & L. COVOLAN
- C184** Intraplantar PGE<sub>2</sub> causes nociceptive response in young rats  
M.A. REDUA & N.C. COIMBRA
- C185** Involvement of cholinergic mechanisms in the reversal of local inflammation and hyperalgesia by a peptide analogue to thymulin (PAT)  
B. SAFIEH-GARABEDIAN, R. MARDAM BEY, J. BARCHINI, F. SHAMAA, M. OZ, O.M. EL-AGNAF & N.E. SAADE
- C186** Increased serum IL-6 level time-dependently regulates hyperalgesia and spinal mu opioid receptor expression during CFA-induced arthritis  
J. ZARINGHALAM, E. TEKIEH, H. MANAHEJI & B. ALANI
- C187** An essential role of cathepsin B in inflammatory pain through the processing and secretion of IL-1 $\beta$  and IL-18 from microglia  
Z. WU, L. SUN, Y. HAYASHI & H. NAKANISHI
- C188** Anti-hyperalgesic and anti-inflammatory effects of *Achillea santolina* and *Stachys athorecalyx* extracts on complete Freund's adjuvant-induced short-term inflammation in male Wistar rats  
E. TEKIEH, J. ZARINGHALAM, H. MANAHEJI & S. REZAZADEH
- C189** Changes in local expression of NGF and its receptors following nerve injury  
J. PELESHOK & A. RIBEIRO-DA-SILVA
- C190** Blocking nerve growth factor degradation in the rat hind paw skin leads to hypersensitivity to noxious stimuli and to sympathetic fibre sprouting  
G.M. LONGO, M. OSIKOWICZ, A.C. CUELLO & A. RIBEIRO-DA-SILVA
- C191** Analgesic, antipyretic and anti-inflammatory effects of fractions from aqueous extract of *Chromolaena odorata* leaves in rats  
B.V. OWOYELE & A.O. SOLADOYE
- C192** Influence of low dose naltrexone on hyperalgesia, paw edema and immune response in rats with chronic paw inflammation  
M. KOWALCZYK, B. ANTKOWIAK & M. PALUCH
- C193** Effect of acetaminophen treatment on the calcitonin gene related peptide induced c-Fos expression in cultured human microglial cells  
W. YISARAKUN, C. CHANTONG, S. MANEESRI-LE GRAND & T. THONGTAN
- C194** ERK activity in anterior nucleus of paraventricular thalamus plays an important role in mechanical hyperalgesia  
Y.-T. CHANG, M.-Y. MIN & C.-C. CHEN
- C195** Possible involvement of serotonergic mechanisms in the central analgesic effect of some NSAID drugs  
R. ARSLAN & N. BEKTAS
- C196** Increased noradrenaline release in a pain facilitatory area of the brain enhances descending pain facilitation  
I. MARTINS, M.G. DE VRIES, S.P. WILSON, B.H. WESTERINK & I. TAVARES
- C197** Inhibitory effect of krill lecithin-derived phosphatidylserine to skin lesions of atopic dermatitis-like mouse model  
B.-J. SUR, B. LEE, M. YEOM, S. KWON, J.-J. HAN, H.D. CHOI, H. LEE & D.-H. HAHM
- C198** T-lymphocyte infiltration and signaling in the dorsal spinal cord contribute to the development of dynamic allodynia in a murine model of herpetic pain  
A. SASAKI, A. SHINODA, T. ANDOH & Y. KURAISHI
- C199** Effect of serotonin depletion on the cortical spreading depression induced the release of calcitonin gene related peptide and substance P in the trigeminovascular nociceptive system  
C. SAENGJAROENTHAM, T. THONGTAN, A. SRIKIATKHACHORN & S. MANEESRI-LE GRAND
- C200** Smad interacting protein 1 modulates thermal, but not mechanical pain  
B. PRADIER, I. RACZ, T. VAN DE PUTTE, M. JEUB, A. MARKERT, D. MAUER, E. SEUNTJENS, V. GAILUS-DURNER, H. FUCHS, M. HRABÉ DE ANGELIS, D. HUYLEBROECK, H. BECK & A. ZIMMER
- C201** Nettle affects nociception in the animal model of visceral pain  
A. BATHAEI & S. SHAHIDI

- C202** A comparison of natural killer cell-mediated lysis of embryonic and adult DRG primary cultured neuronal cells  
J. LEE, A.J. DAVIES, M.-S. KIM, K.-M. LEE & S.B. OH
- C203** Antinociceptive effect of acute sucrose on incision pain model in rats  
L.O.A. SANOTOS, M.A. REDUA & N.C. COIMBRA
- C204** Efficacy of melatonin in treating myofascial face pain: a double-blind, randomized, placebo-controlled study  
S. ZANETTE, L. VIDOR, W. CAUMO, I.D.S.L. TORRES, I.C.C. DE SOUZA, A. DE SOUZA & B. DETÂNICO
- C205** Pain perception, placebo analgesia, and bayesian decision theory (BDT)  
D. ANCHISI
- C206** Perturbing and measuring neural activity in the pain resonance network: TMS studies  
S. BORGOMANERI, A. AVENANTI & S.M. AGLIOTI
- C207** The influence on postoperative analgesia by preemptive analgesia and its objective evaluation  
J. FRICOVA, M. VEJRAŽKA & R. ROKYTA
- C208** Effects of a non-invasive vestibulocortical activation technique in persistent pain states  
T.T. NGO, W.N. BARSDSELL, M.J. CHOU, C. ARNOLD, A. NUNN, S.T. HILL, D.J. BROWN, S.J. GIBSON & S.M. MILLER
- C209** Neural correlates of vicarious pain evoked by somatic and emotional cues  
E. VACHON-PRESSEAU, M. ROY, M.-O. MARTEL, E. CARON, P. JACKSON & P. RAINVILLE
- C210** Evaluation of a Bayesian model of pain modulation and placebo effect  
M. ZANON, M. GREMESE & D. ANCHISI
- 
- 11. Sensory systems (Other perception systems)**
- C211** Genetic approach to elucidate ASIC3-mediated sensory pathway  
S.-H. LIN & C.-C. CHEN
- C212** M2 receptor activation causes desensitization to mechanical and heat stimuli negatively modulating TPVR1 channel expression and activity in sensory neurons  
F. DE ANGELIS, S. MARINELLI, B. FIORETTI, L. CATACUZZENO, F. FRANCIOLINI, J. WESS, F. PAVONE & A.M. TATA
- C213** Cellular mechanisms for presynaptic inhibition of sensory afferents  
B. DELGADO LEZAMA, R.K. CHRISTENSEN, R.E. RUSSO, B. LYKKE LIND, N. SCHMITT, M. LOEZA-ALCOCER, A. VICTOR PETERSEN, M. LAURITZEN & J.-F. PERRIER
- C214** The effects of tendon vibration on proprioceptive uncertainty  
C.T. FUENTES, H. GOMI & P. HAGGARD
- C215** Mechanoreceptive Ruffini endings innervating by ASIC3-positive trigeminal ganglion neurons  
T. MAEDA, F. RAHMAN & F. HARADA
- C216** Acid sensing ionic channel currents in spiral ganglion neurons of the mouse  
A. GONZALEZ GARRIDO, R. VEGA & E. SOTO
- C217** Development of neurons containing substance P and calcitonin gene-related peptide in the rat sensory ganglia  
P.M. MASLYUKOV, V.V. PORSEVA, M.B. KORZINA, O.A. VASLILJEVA & A.I. EMANUILOV
- C218** Significance of the IL-6 signal transducer gp130 for neuronal regeneration  
S. QUARTA, N. SCHERBAKOV, M. ANDRATSCH, S. GELEY & M. KRESS
- C219** Differential pharmacology of native P2X3 receptors in primate and rat sensory neurons  
G. MO, A. SERRANO, R. GRANT, M. PARE, D. O'DONNELL, M. PERKINS, P. SEGUELA & C.Q. CAO
- C220** Role of sensory inputs on newborn periglomerular cell survival and distribution in the adult mouse olfactory bulb  
S. BOVETTI, A. VEYRAC, S. GARCIA, O. FRIARD, A. FASOLO, A. DIDIER & S. DE MARCHIS
- C221** Evidence for ventral and dorsal streams in the chemical senses  
J. FRASNELLI, J.N. LUNDSTROM, S. NEGOIAS, J. GERBER, T. HUMMEL & F. LEPORE
- C222** Dynamic properties of multiple olfactory neurons in *Drosophila* antennal basiconic sensilla  
A.S. FRENCH, P.H. TORKKELI & J. SCHUCKEL
- C223** Expression and anterograde transport of NT-3 in the primary olfactory pathway  
K. GUTHRIE & H. LIU
- C224** Morpho-functional imaging of the honeybee olfactory system by in-vivo two-photon microscopy  
A. HAASE, E. RIGOSI, G. ANFORA, C. VINEGONI, G. VALLORTIGARA & R. ANTOLINI
- C225** Reduced responses to general odorants and pheromones in mouse model for Alzheimer disease  
T. OOSAKO, T. NARUKAWA, T. NOGUCHI, T. SUZUKI & M. KASHIWAYANAGI
- C226** A comparison of the changes in morphology induced by vinblastine and docetaxel on the olfactory mucosa of rabbits  
B.M. KAVOI, A.N. MAKANYA, J. PLENDL & S.G. KIAMA
- C227** Impact of tonic inhibition on synaptic integration in olfactory bulb granule cells  
C. LABARRERA & K. ANGELO



## POSTER PRESENTATION

- C228** Two distinct mechanisms of odorants which can counteract the predator odor induced stress responses  
M. MATSUKAWA, T. MURAKAMI, N. KATSUYAMA, M. IMADA, S. AIZAWA & T. SATO
- C229** Sodium-channel subtypes and membrane current characteristics of the procerebral neurons of *Helix*  
Z. PIRGER, K. ELEKES & T. KISS
- C230** Phosphorylation via PKC regulates the function of the *Drosophila* odorant coreceptor  
V. SARGSYAN, B. HANSSON & D. WIECHER
- C231** Olfactory crypt cells of the rainbow trout respond to odorants related to reproduction  
A. BAZÁES, R. OSORIO & O. SCHMACHTENBERG
- C232** Remarkable diversity in the vomeronasal system of placental mammals: can ecology serve as a predictor of morphology?  
R. SUAREZ, P. FERNÁNDEZ-ABURTO & J. MPODOZIS
- C233** Odor concentration sensitive neurons in the anterior piriform cortex  
A. SHIMIZU, J. WANG, S. OHARA, K.-I. TSUTSUI & T. IJIMA
- C234** The role of temporal features of the afferent spike train in the perception of vibrotactile stimulus frequency  
I. BIRZNIKS & R.M. VICKERY
- C235** Neonatal whisker trimming alters neural activity and behavior of adult rats  
Y.-F. CHU, C.-T. YEN & L.-J. LEE
- C236** Warming and cooling of the tongue differentially modulates responses of ethanol/sucrose-responsive parabrachial nuclei (PbN) cells in the hamster  
C.-S. LI & Y.K. CHO
- C237** Responses to tactile stimuli are slowed down by absent, but potential, distracters  
F. MARINI, L. CHELAZZI & A. MARAVITA
- C238** The proprioceptive map of the arm is systematically and individually constructed  
L. RINCON GONZALEZ & S.I. HELMS TILLERY
- C239** Consequences of elevated 5-HT levels during development for signal propagation and short term plasticity in the adolescent rat barrel cortex  
S. MICELI, M. SELTEN, M. NEGWER, S. VAN BEEST, J. HOMBERG, R. BAKKER & D. SCHUBERT
- C240** Selective expression of a muscarinic acetylcholine receptor M3 on type III cells in mouse fungiform taste buds  
Y. MORI, Y. OHTUBO & K. YOSHII
- C241** Learned preference for dried-bonito *dashi* (a traditional Japanese fish broth): a complex world of taste and smell  
T. KONDOH, T. MATSUNAGA, H. YAMAZAKI, T. KAMBE & M. NAGAO
- C242** Postnatal development of taste bud cells in mouse fungiform papillae  
Y. OHTUBO, M. IWAMOTO & K. YOSHII
- C243** Electrophysiological study of the involvement of the insular cortex of rats in interoception  
M. AGUILAR, S. KIM, F. TORREALBA, T. COLEMAN & P. MALDONADO
- C244** Distribution of connexin36 in juvenile and adult rodent spinal cord: Co-localization with vglut-1 suggests primary afferent terminals form mixed chemical and electrical synapses  
W. BAUTISTA, D.A. MCCREA & J.I. NAGY
- C245** The role of pre-existing representations in the induction of high-level adaptation aftereffects  
V. DAELLI
- C246** In vivo connection imaging and its application to monkey inferotemporal face system  
N. ICHINOHE
- C247** The role of ASIC3 and TRPV1 in blood volume regulation  
C.-H. LEE HANS & C.-C. CHEN
- C248** Evaluation of somatosensory evoked potentials and sensory reorganization at cortical level following repairing transected cervical roots in the ventral aspect  
Y.-L. LIN, K.-T. CHANG, Y.-H. SHIH, H. CHENG & M.-C. HUANG
- C249** A novel genetic approach to study neuroanatomical circuits  
J.A.G. MACKINNON & O. GRIESBECK
- C250** Artificial multi-cortical synchronization by electrical microstimulation enables behavioral discrimination in the rat  
P.E. MALDONADO, H.E. MANZUR-VALDIVIA, J. ALVAREZ & C. BABUL
- C251** Medioventral part of the posterior thalamus in the mouse  
K. MOTOMURA & T. KOSAKA
- C252** Elevated serotonin levels during cortical development affect the structural organization of thalamocortical and intracortical somatosensory networks  
M. NEGWER, C. KALKHOVEN, M. SELTEN, S. VAN BEEST, J. HOMBERG & D. SCHUBERT
- C253** Ventral pallidal neural response to non-selective dopamine receptors agonist, apomorphine: an electrophysiological study in anesthetized rats  
M. ORDIKHANI-SEYEDLAR, D. FARZIN & A. HAGHPARAST

- C254** The rat claustrum: anatomical axes defined by cellular morphology  
R. ORMAN, K. PATEL & F. SCALIA
- C255** Antidromic potential spread modulates the receptor responses in the stretch receptor neurons of the crayfish  
N. PURALI
- C256** State-dependent correlations between spontaneous neocortical activity and cerebral blood flow  
R.N.S. SACHDEV, Y. YU, P. HERMAN, B.G. SANGANAHALLI, D.A. MCCORMICK & F. HYDER
- C257** Properties and mechanisms of orientation tuning of the cat lateral geniculate nucleus  
H. SATO, T. NAITO, H. OSAKI, N. SUEMATSU, O. SADAKANE, M. OKAMOTO & S. SHIMEGI
- C258** Octopamine-induced increase in sensitivity in spider VS-3 mechanosensory neurons is mediated by Ca<sup>2+</sup>/calmodulin dependent protein kinase II  
P.H. TORKKELI, I. PANEK & S. MEISNER
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- 12. Motor systems (Disease)**
- 
- C259** Synergistic effect of smoking and LPO in pathogenesis of ALS: an Indian study  
A. ANAND, P. GUPTA & S. PRABHAKAR
- C260** Evidence of increased nuclear SOD1 in lymphocytes of sporadic ALS patients  
C. CEREDA, E. LEONI, G. MAZZINI, E. ALVISI, M. CERONI & E. COVA
- C261** Transcriptional and post-transcriptional regulation of mRNA SOD1 under oxidative stress  
S. GAGLIARDI, P. MILANI, M.L. AMADIO, V. SARDONE, A. GHIROLDI, A. PASCALE, E. COVA & C. CEREDA
- C262** Different mutant SOD1 clearance in muscle and motoneuronal cell models of amyotrophic lateral sclerosis  
E. ONESTO, E. GIORGETTI, P. RUSMINI, V. CRIPPA, N. FERRI, A. ZITO, M. GALBIATI & A. POLETTI
- C263** Behavioral effects induced by continuous magnetic field in an experimental model of Parkinson induced by neurotoxin 6-hydroxydopamine in Wistar rats  
G. BERTOLINO & J.E. DE ARAUJO
- C264** Genetic evidence for the involvement of D2 receptors in the motor effects of nociceptin/orphanin FQ receptor (NOP) ligands  
M. CALCAGNO, R. VIARO, M. PESENTE, E. BORRELLI & M. MORARI
- C265** Beta-band local field potentials (LFP) recorded from subthalamic nucleus in patients with Parkinson's disease during saccadic eye movements  
A. YUGETA, A. SUNDARAM, A.M. LOZANO, M. HODIAIE, W.D. HUTCHISON & R. CHEN
- C266** Involvement of IL-1 in the activated microglia-induced Parkinson's disease animal model  
S. TANAKA, A. ISHII, H. OHTAKI, S. NUMAZAWA, S. SHIODA & T. YOSHIDA
- C267** A rise in synchronization of neuronal activity in the rat subthalamic nucleus under dopamine depletion  
A. LINTAS, I. SILKIS & A.E.P. VILLA
- C268** Motor activity and GABAergic synaptic transmission of dopamine D1 and D2 receptor knock-out mice  
T. MOMIYAMA, A. SATO, M. KATSUKI & T. SASAOKA
- C269** MPP<sup>+</sup> modulates hyperpolarization-activated current (I<sub>h</sub>) in dopaminergic neurons of the substantia nigra pars compacta  
A. MASI, R. NARDUCCI, F. MORONI & G. MANNAIONI
- C270** Morphologic and functional impact of nanoscaled scaffolds of carbon nanotubes on spinal explants growth *in vitro*  
A. FABBRO, A. VILLARI, J. LAISHRAM, D. SCAINI, F.M. TOMA, A. TURCO, M. PRATO & L. BALLERINI
- C271** Modulation of H-reflex in flexor pollicis brevis during the preparatory period of a force producing task: a pilot study  
E. AIMOLA, M. SANTELLO, L. LAUDANI & A. CASABONA
- C272** Sense of the body and the self in spinal cord injury patients  
B. LENGGENHAGER, M. PAZZAGLIA, G. SCIOVETTO, M. MOLINARI & S.M. AGLIOTI
- C273** Late phase TNF- $\alpha$  treatment does not affect functional outcome after spinal cord injury  
P.M. VIDAL VERA, S. NELISSEN, L. GEBOS, E. LEMMENS & S. HENDRIX
- C274** Diversity of cell death pathways involved in spinal cord injury induced by metabolic perturbations mimicking ischemia and magnesium ions  
E. BIANCHETTI, M. MLADINIC & A. NISTRI
- C275** Immunohistochemical study of the spinal motor neurons in rabbits after pharmacologic preconditioning and ischemia/reperfusion  
I. DOMORÁKOVÁ, E. MECHÍROVÁ, M. STEBNICKÝ, M. ŽOFČÁK, M. DANKOVÁ, M. JANITOROVÁ, V. DANIELISOVÁ & J. BURDA
- C276** Delayed pharmacologic preconditioning provides elevation of HSP and antioxidant enzymes after spinal cord ischemia  
E. MECHÍROVÁ, I. DOMORÁKOVÁ, V. DANIELISOVÁ, M. DANKOVÁ, M. STEBNICKÝ, M. ŽOFČÁK & J. BURDA
- C277** Cannabidiol increases locomotor recovery after cryogenic spinal cord injury in rats  
M. KWIATKOSKI, F. GUIMARAES & E. DEL-BEL
- C278** Age differences in short-latency afferent inhibition revealed by a constant TMS intensity paradigm  
M. YOUNG-BERNIER, P. DAVIDSON & F. TREMBLAY



## POSTER PRESENTATION

- C279** Body part-specific emotions influence action recognition in apraxia patients  
M. PAZZAGLIA, G. GALLI & S.M. AGLIOTI
- C280** Analysis of myosin-V immunoreactive myenteric neurons from arthritic rats  
E.B. ROMANO, J.N. ZANONI & I.D. DA SILVA SOUZA
- C281** Motor recovery and synaptic plasticity after ventral root avulsion and repair with fibrin sealant combined with bone marrow mononuclear stem cells (BMSC)  
R. BARBIZAN, J.L. CARVALHO, M.F. CORAT, A.C. RODRIGUES, A.M. GOES, B. BARRAVIEIRA, R.S.F. JUNIOR & A.L.R. OLIVEIRA
- C282** Comparative extrapyramidal effects of *Rauwolfia vomitoria*, chlorpromazine and reserpine in mice  
S.A. BISONG, R.E. BROWN & E.E. OSIM
- C283** Behavioural and cerebellar histomorphological effects of artesunate and amodiaquine combination in rats  
M.B. EKONG, A.O. IGIRI, M.A. ELUWA & T.B. EKANEM
- 
- 13. Learning & memory (Pharmacology & toxicology)**
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- C284** The cognitive effects of CEE depend on whether menopause etiology is transitional or surgical  
J.I. ACOSTA, S.E. MENNENGA, B.B. BRADEN & H.A. BIMONTE-NELSON
- C285** Aversive effects of ethanol: comparison of ethanol-induced and lithium chloride-induced conditioned taste avoidance in female Wistar rats  
Á. AGÜERO-ZAPATA, L. DE LA TORRE-VACAS & B. GONZÁLEZ-SEGURA
- C286** Protective effect of black ginseng on TMT-induced memory deficient rats  
Y.H. AHN, H.J. PARK, H.S. SHIM, M.S. YE, D.H. HAHM, H. LEE & I. SHIM
- C287** The effects of acute administration of dioica urtica on the object recognition task in mice  
M. AKHAVAN & S. SHAHIDI
- C288** The effects of nicotinic acetylcholine receptors antagonist microinjection on cross state-dependent learning between WIN55, 212-2 and nicotine or ethanol  
S. ALJANPOUR, A. REZAYOF & M.R. ZARRINDAST
- C289** D1 and D2 dopamine receptors in the nucleus accumbens are involved in restoration of inhibitory avoidance memory by nicotine  
R. AZIZBEIGI, S. AHMADI & M.R. ZARRINDAST
- C290** Neurobehavioral properties of leaf extracts of *Spondias mombin* in Wistar rats  
O.R. ASUQUO, T.B. EKANEM, P.B. UDOH & M.A. ELUWA
- C291** Rats exposed to cocaine during late gestation show long-term deficits in spatial learning ability  
K. BEDI & Z.M. ISMAIL
- C292** The cognitive effects of calcium channel blockers in mice; influence of an allosteric modulation of the nicotinic cholinergic receptors  
G. BIALA, M. KRUK, J. KOZAK & K. JOZWIAK
- C293** Chronic intracerebroventricular  $\beta$ NGF infusion improves hippocampal-dependent memory  
A.M. BIRCH & Á.M. KELLY
- C294** Sildenafil, a selective phosphodiesterase type 5 inhibitor, enhances memory reconsolidation of an inhibitory avoidance task in mice  
M.M. BOCCIA, M.G. BLAKE, M. KRAWCZYK & C.M. BARATTI
- C295** Prolonged stress-induced impairment of memory in rats is alleviated by parallel administration of the cod liver oil  
J.J. BRASZKO & E. TROFIMIUK
- C296** Evaluation of chronic alcohol self-administration in male and female rats using a 3-bottle choice paradigm: sexually dimorphic effects on spatial learning and reference memory  
S. CACACE, F. PLESCIA, I. BARBERI, E. CANNIZZARO & C. CANNIZZARO
- C297** Analysis of gene expression of glutamate receptors *Nr2a* and *Nr2b* in brain structures of rats submitted to conditioned emotional response and to treatment with the standardized extract of *Ginkgo biloba* L  
V.M. FAVARO, D.R. OLIVEIRA, J.M. CERUTTI & S.M. CERUTTI
- C298** The effects of flumazenil in abstinence syndrome and tolerance to the anxiolytic effects of diazepam are context dependent  
S.E. CRUZ-MORALES, B. IDELFONSO & J.C.P. ARRIAGA-RAMÍREZ
- C299** Dopamine D2 receptors activation mediates object working memory capacity in mice  
E. DE LEONIBUS
- C300** Effect of L-Arginine on passive avoidance memory in adult male rats exposed to restraint-stress  
H. ESHAGH HAROONI, Z. MOAYED FARD, S. NIKNEJAD, A.-A. MOAZEDI, L. KHAJEPOUR & G.-A. PARHAM
- C301** Downregulation of neuronal activity marker gene *Arc/Arg3.1* expression in the brain of scopolamine-induced amnesic mice and its attenuation by *Withania Somnifera*  
A. GAUTAM & M.K. THAKUR
- C302** Modulation of hippocampal sharp wave - ripple activity by the mu opioid receptor  
P. GIANNOPOULOS & C. PAPTHEODOROPOULOS



- C303** The effect of ghrelin on the impairment of memory induced in rat by MK-801  
F. GOSHADROU, M. KERMANI
- C304** Central actions of the triptamine, a selective M2 muscarinic receptor antagonist  
G. GALVAO, V. GAGLIARDI, T. MORANDIM, E. VIEIRA, M.R. GUERRA, M. PREZA & M. GAMBERINI
- C305** Granisetron improved scopolamine-induced memory impairment in mice: involvement of nitric oxide  
M. JAVADI-PAYDAR, M. ZAKERI, A. NOROUZI & A.R. DEHPUR
- C306** Lead-induced impairment of learning and memory at different developmental stages of neuronal development in rats  
K.M. KHAN, R. ABDUR, A.-K. GHANIM & K. ISLAM
- C307** The role of cannabinoid receptors in mediating the chronic effects of L-type calcium channel blocker (verapamil) on learning and memory in rat  
H. KOMAKI, M. NOORBAKHS, S. SHAHIDI & A. SARIHI
- C308** Effect of Krill phosphatidylserine on neurite outgrowth of Neuro-2A cells and improvement of memory in rats  
B. LEE, J. PARK, H. LEE & D.-H. HAHM
- C309** Fluoxetine reverses chemotherapy-induced reduction in hippocampal neurogenesis and spatial memory  
L. LYONS, M. ELBELTAGY, G. BENNETT & P. WIGMORE
- C310** Behavioral and morphological consequences of single epileptic seizure elicited by flurothyl  
J. MAREŠ, P. MAĎA, K. DEYKUN, M. POMETLOVÁ, R. ROKYTA & J. POKORNÝ
- C311** Intra-cerebellar injection of histamine inhibits emotional memory consolidation while chlorpheniramine present no effect  
R. MATTIOLI & A.C.L. GIANLORENÇO
- C312** Effects of the selective orexin-1 receptor antagonist SB-334867-A on acquisition, retrieval, and consolidation of taste aversion learning  
C. MEDIAVILLA & S. RISCO
- C313** The effect of scopolamine on hippocampal function and Akt activation  
M. MOOSAVI, G. YADOLLAHI KHALES, L. ABBASI, A. ZARIFKAR & K. RASTEGAR
- C314** Effect of pentoxifylline on ischemia- induced brain damage and spatial memory impairment in rat  
S. MOVASSAGHI, Z.N. SHARIFI, M. MEHDIZADEH & M. SOLEYMANI
- C315** The effects of vitamin B6 and folic acid on memory retrieval in rats  
M. NASSIRI-ASL, M.-R. SAROOKHANI, E. ABBASI & A.-A. ZANGIVAND
- C316** The activation of basolateral amygdala NMDA receptors inhibited amnesia induced by intra-ventral tegmental area microinjection of muscimol  
F. NAZARI-SERENJEH, A. REZAYOF & M.-R. ZARRINDAST
- C317**  $\alpha$ ,  $\beta$ -amyrin ameliorates learning and memory impairments induced by scopolamine in mice  
S.R. OH, H.A. JUNG, C.I. PARK, Y.H. CHOI & J.W. JUNG
- C318** Enhanced learning and memory of normal young rats by repeated oral administration of Krill phosphatidylserine  
H.J. PARK, H.S. SHIM, Y.H. AHN, M.S. YE, J.J. HAN, D.H. HAHM, H. LEE & I. SHIM
- C319** Improvement of memory by essential oils containing cypress against scopolamine-induced amnesia  
C.-J. PARK & C.-I. PARK
- C320** (-)-Linalool, a naturally occurring monoterpene compound, impairs memory acquisition in the object recognition task, inhibitory avoidance test and habituation to a novel environment  
P. PATRICIA, V. COELHO, J. GIANESINI, R. VON BOROWSKI, L. MARTINS, D. FERNANDES, J. PICADA, A.R. SANTOS & L.F. BRUM
- C321** ABT239, an H<sub>3</sub> receptor antagonist, does not induce pro-cognitive effects nor increase cortical ACh release in rodents lacking neuronal histamine  
G. PROVENSÍ, L. MUNARI, M.B. PASSANI, M.G. GIOVANNINI, T. GARRISON, M. COWART, J. BRIONI & P. BLANDINA
- C322** Stimulus property affects temporal discrimination in rats  
S. SAKATA, M. MIZUMOTO & A. UJITA
- C323** Neuroprotective effect of FK506 reduces hippocampal damage and memory deficit after transient global ischemia in rat  
Z.N. SHARIFI, S. MOVASSAGHI, G. HASSANZADEH, M.R. ZARRINDAST & N. NOURI
- C324** Effects of chronic administration of valproic acid on learning and hippocampal adult neurogenesis in rats  
S. SINTONI, E. KURTYS, M. SCANDAGLIA, A. CONTESTABILE, M. BENTIVOGLI & B. MONTI
- C325** Repeated learning and inverse learning after impairment of reconsolidation caused by NMDA glutamate receptors antagonists: the role of initial learning abilities  
O.A. SOLOVIEVA, A.T. PROSHIN, Z.I. STOROZHEVA & V.V. SHERSTNEV
- C326**  $\delta^9$ -tetrahydrocannabinol causes adolescent learning impairment by attenuation of plasticity and subtle disruption of neurogenesis in the hippocampus  
R.W.J. STEEL, J.H. MILLER & D.J. DAY
- C327** The effect of anesthetic dose of ketamin on water maze memory acquisition, consolidation and retrieval  
G. YADOLLAHI KHALES, M. MOOSAVI, L. ABBASI, A. ZARIFKAR & K. RASTEGAR



## POSTER PRESENTATION

- 14. Cognition & emotion (Human cognition & emotion)**
- C328 Action simulation plays a critical role in deceptive action recognition**  
A. AVENANTI, E. TIDONI, S. BORGOMANERI & G. DI PELLEGRINO
- C329 Neurotransmitter receptor distribution and functional activations found in Broca's region**  
M. BACHA-TRAMS, K. ZILLES, K. AMUNTS & A.D. FRIEDERICI
- C330 Consolidation of multiple objects in working memory depends upon type of attention**  
S. BAJAL & N. SRINIVASAN
- C331 Language processing lateralisation: investigation on the dorsolateral prefrontal cortex (DLPC) by functional near infrared spectroscopy**  
S. BISCONTI, G. DI SANTE, R. DE CAROLIS, M. FERRARI & V. QUARESIMA
- C332 Hemispheric asymmetries in the processing of words in the first and second language: a cross-cultural study**  
A. D'ANSELMO, S. REITERER & A. BRANCUCCI
- C333 Inhibitory control mechanism in bilingual language processing**  
T. DASH & B.R. KAR
- C334 Gaze direction interacts with numerical representation**  
R. FALCONE, E. BRUNAMONTI, A. GENOVESIO, S. COSTA & S. FERRAINA
- C335 Parietal cortex mediates the interaction between numerosity and time**  
M.J. HAYASHI, R. KANAI & V. WALSH
- C336 Activation of cross-modal and multimodal brain areas in musical cognition**  
S.A. HELEKAR, J. BISHOP, C. KARMONIK, S. FUNG, G.I. ALLEN, R. YEKOVICH & D.B. ROSENFELD
- C337 Effect of presentation of Arabic numerals on temporal order judgment task**  
T. HORAGUCHI, Y. YAMAKAWA & S.-I. SASAKI
- C338 The neural substrate in which an acute moderate exercise improves cognitive function is different between younger and older adults**  
K. HYODO, I. DAN, K. SUWABE, H. YANAGISAWA & H. SOYA
- C339 Spatiotemporal dynamics of theta band phase synchronization underlying perceptual closure process in two-tone visual image presentation**  
Y. KAKIMOTO, M. KAWASAKI, K. AIHARA & Y. YAMAGUCHI
- C340 Dual EEG analyses for synchronized behaviors of two person during alternately tapping tasks**  
M. KAWASAKI, K. KITAJO & Y. YAMAGUCHI
- C341 Multi-modal processing of facial and vocal information in the human brain**  
H.-T. KAZUKO, K. MASAHIRO, V.B. FRANCOIS, F. HIDENAO & C. ANDRZEJ
- C342 Cognitive impairment in children following exposure to pneumococcal meningitis: an event-related potential study**  
M. KIHARA, M. DE HAAN, H.H. GARRASHI, E.O. WERE, B.R. NEVILLE & C.R. NEWTON
- C343 Expectancy during temporal judgments of scripts: a pupillary and eye movement study**  
S. LANDGRAF, S. RAISIG & E. VAN DER MEER
- C344 Management of an alpha rhythm - a key to the creative development**  
T. MAKOTROVA & G. MAKOTROVA
- C345 Role and time course of the modulation of the motor system during the processing of action-related verbs**  
G. MIRABELLA, S. IACONELLI, S. SPADACENTA, P. FEDERICO & V. GALLESE
- C346 Widely distributed word processing in human cortex**  
H.W. MÜLLER, M. BEU, C. ANTKE, A. HEINZEL & H. HAUTZEL
- C347 Mental transformations of visual stimuli in humans and in monkeys: rotation vs. translation**  
T. NEKOVAROVA, J. NEDVIDEK, D. KLEMENT, R. ROKYTA & J. BURES
- C348 An event-related brain potential study to examine individual differences in arithmetic skill**  
M.I. NÚÑEZ-PEÑA, M. GRACIA-BAFALLUY & E. TUBAU
- C349 Specific characteristics in the time perception during the number comparison task: what happens at 8 sec inter-stimulus interval?**  
Y. OGATA, T. HORAGUCHI & M. YAMAMOTO
- C350 The role of incubation on ideational fluency: an EEG study**  
M. PALMIERO, D. DI GIACOMO & N. SRINIVASAN
- C351 Imitation strategies in callosotomized patients**  
C. PIERPAOLI, L. FERRANTE, G. BERLUCCHI, A. ORTENZI, T. MANZONI & M. FABRI
- C352 NIRS can detect cortical activity reflecting the fMRI-based default mode network during the resting state**  
S. SASAI, F. HOMAE, H. WATANABE, A.T. SASAKI, H. TANABE, N. SADATO & G. TAGA
- C353 Mimicking someone else is being someone else?**  
B. SPANLANG, A. POMES, J.R. LANDIN, P.S. PINEDA & M. SLATER

- C354 Processing of syntactic structures with different frequencies of use: an ERP study**  
Á.J. TABULLO, Y. SEVILLA, A. YORIO, E. SEGURA, S. ZANUTTO & A. WAINSELBOIM
- C355 Neural substrates for storage of duration information: an fMRI study**  
K. TAKAHASHI, S. SUGAWARA, S. TANAKA, K. WATANABE & N. SADATO
- C356 Visual attention during a bisection timing task**  
A.L. TOSCANO-ZAPIEN, D. VELAZQUEZ-LOPEZ & D.N. VELAZQUEZ-MARTINEZ
- C357 Embodied language comprehension in motion**  
C. MADDEN, P.F. DOMINEY & J. VENTRE-DOMINEY
- C358 Executive function among patients with frontopolar cortex damage**  
M. ZIAEI & J. PERSSON
- C359 Reversed task-queing reveals flexible control-adjustment in task-switching subsequent to pretrial-conflict**  
U. ZIMMERMANN, H. RUGE, D. SCHMIDT, S. SCHOENFELD & T. GOSCHKE
- C360 The response of the right human amygdala is stronger to central vs peripheral animal faces: an fMRI study**  
I. ALMEIDA, M. VAN ASSELEN & M. CASTELO-BRANCO
- C361 Neuroscience and education: the effect of emotion on relabeling naïve conceptions of physical phenomena as undesirable or risky during the acquisition of domain-specific knowledge in physics**  
G. BROCKINGTON, M.H. IMMORDINO-YANG & S. WONG
- C362 Depth perception and defensive distances**  
E. COMBE, Z.C. CHAO & N. FUJII
- C363 Variability of emotional defensive profiles to threatening stimuli in humans**  
O. FERNANDES JR, F. BRAGA, F.S. ERTHAL, I.P.A. DAVID, E. VOLCHAN, L. OLIVEIRA & M.G. PEREIRA
- C364 Empathic responsivity to infant cry and joy in women**  
S. GRAZIANO, E. MACALUSO, C. TRENTINI, D. LENZI, G.L. LENZI, G. LAVIOLA, A.M. SPERANZA & M. AMMANITI
- C365 The role of D2 dopamine receptors in false memories**  
R.V. GUARNIERI, R.R. RIBEIRO, J.C. GALDUROZ, L.M. STEIN & O.F.A. BUENO
- C366 Monitoring yoga state through Sahaja meditation: an fMRI study**  
S.E. HERNÁNDEZ, C. MADROÑO & J.L. GONZÁLEZ-MORA
- C367 Task demands influence the processing of emotional words: n event-related potentials study**  
J.A. HINOJOSA, C. MÉNDEZ-BÉRTOLO & M.A. POZO
- C368 Activation of the reward system by joining hands with familiar person: an fMRI study**  
H. KAWAMICHI, R. KITADA, K. YOSHIHARA, H.K. TAKAHASHI & N. SADATO
- C369 Anxiety modulates exogenous attention to negative stimuli: behavioral and electrophysiological data**  
D. KESSEL, M. TAPIA & L. CARRETIÉ
- C370 Characteristics of EEG in subjects with different level of emotional intelligence**  
O. KISLOVA & M. RUSALOVA
- C371 The primate pulvinar reveals subjective confidence in one's own vision**  
Y. KOMURA, A. NIKKUNI & T. UETAKE
- C372 Influence of emotional distraction on working memory performance in Borderline Personality Disorder**  
A. KRAUSE-UTZ, N.Y.L. OEI, I. NIEDTFELD, M. BOHUS, P. SPINHOVEN, C. SCHMAHL & B.M. ELZINGA
- C373 Caudate nucleus processes experience-dependent interaction between language and emotion in mothers' infant-directed speech**  
Y.-T. MATSUDA, K. UENO, K. CHENG, R. MAZUKA & K. OKANOYA
- C374 Characterizing executive control impairments in fibromyalgia: neural correlates based on brain electrical activity**  
F. MERCADO, P. BARJOLA, M. FERNÁNDEZ-SÁNCHEZ, V. FRESNO & F. GÓMEZ-ESQUER
- C375 Interaction between slow and rapid sympathetic responses is essential for sound-induced aversiveness**  
Y. OISHI & M. KASHINO
- C376 Training in temporal processing ameliorates spatial working memory in aphasic patients**  
A. ORON, A. MOCZULSKA, J. SKOLIMOWSKA, M. LEWANDOWSKA, I. DOMITRZ, B. PILCZUK, H. KWIECINSKI & E. SZELAG
- C377 Performance and flexibility on sequence learning: description by informational entropy**  
R. PAVÃO, J.P. SAVIETTO, L.N.D.O. SILVA, J.R. SATO, G.F. XAVIER & A.F. HELENE
- C378 Creativity and intelligence as characteristics of brain function damage in the prefrontal and parietal cortex**  
A.M. PERFILEV, O.M. RAZUMNIKOVA & V.V. STUPAK
- C379 Women's judgment on male facial attractiveness: effects of race and menstrual cycle phase?**  
L.M. PERILLA-RODRÍGUEZ, C. PERIN, A.I.F. MENDES & S.S. FUKUSIMA
- C380 Activation in the ventral putamen in response to emotional positive and negative stimuli in the visual and auditory modalities**  
S. SCHUMACHER, V.L. MARCAR, T. LOENNEKER, K. OPWIS, E. MARTIN & C. MARTIN-SOELCH



## POSTER PRESENTATION

- C381** **Modulation of the motor system during the processing of action-related verbs with and without emotional meaning**  
S. SPADACENTA
- C382** **Sensory-motor alpha suppression evoked by the observation of emotional hand gestures**  
A. STRELTSOVA, M.A. UMITLA', T. BEL-BAHAR, P. FEARON, P. FONAGY & V. GALLESE
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- 15. Neurodegeneration & aging (Aging, epilepsy & ischemia)**
- C383** **Crucial role of CB1 receptors on hippocampal GABAergic neurons in brain aging**  
O. ALBAYRAM, J. ALFERINK, A. PIYANOVA, K. MONORY, B. LUTZ, A. ZIMMER & A. BILKEI-GORZO
- C384** **Type I diabetes induces early neuronal and glial changes in the rat hippocampus**  
A.F. AMBROSIO, J.M. GASPAR, F.I. BAPTISTA, Á.F. CASTILHO, J. LIBERAL & J. GONÇALVES
- C385** **Absolute composition of neurons and non neuronal cells of the aging human brain with dementia**  
C.H. ANDRADE-MORAES, D.R. PARENTE-BRUNO, L. POLICHISO, A.V. OLIVEIRA-PINTO, L.T. GRINBERG, R.E.P. LEITE, R.E.L. FERRETTI, C.A. PASQUALUCCI & R. LENT
- C386** **Effects of green tea and green tea extract in cerebellum oxidative status of aged rats**  
M.J. SANTOS-MARQUES, M. ASSUNCAO & J. ANDRADE
- C387** **Aging of the dystrophin-glycoprotein complex: studies in the dystrophin-deficient mdx mice**  
A. PERTILLE, L.M. APOLINÁRIO, C.Y. MATSUMURA, A.P.T. TANIGUTI, H. SANTO NETO & M.J. MARQUES
- C388** **The synaptic responses of adenosine receptors in the rat hippocampus are modified by chronic stress: the aging hypothesis**  
V.L. BATALHA, A.M. SEBASTIÃO & L.V. LOPES
- C389** **TRPM2 current potentiation with age *in vitro* is dependent on oxidative stress**  
J.C. BELROSE, J.F. MACDONALD & M.F. JACKSON
- C390** **Microglial responses in aged rats after early undernourishment and late exercise: stereological analysis of the somatosensory cortex**  
R.P. BORGES, C.M. LIMA, L.C. VIANA, M.A. OLIVEIRA, T.T. CARDOSO, I.N.F. ALMEIDA, D.G. DINIZ, J.B. TORRES, A. PEREIRA, M.B. OLIVEIRA, A.A. LOPES, R.F. SILVA, R.A. GUEDES, A.A. SANTOS, D.S. LIMA, V.H. PERRY, P.F. VASCONCELOS, C. CUNINGHAM, R.C.A. GUEDES & C.W.P. DINIZ
- C391** **Age-related changes in protein levels in the central auditory system of the rat**  
J. BURIANOVA, L. OUDA & J. SYKA
- C392** **Estrogen- $\alpha$  sensitive brainstem areas are less affected by lipofuscin accumulation**  
H. DE WEERD, J.G. VEENING, R. KORTEKAAS, J.J. VAN DER WANT & P.O. GERRITS
- C393** **The neuron-astrocyte-microglia triad in normal brain aging and a model of neuroinflammation in the rat**  
D. LANA, F. CERBAI, D. NOSI, P. PETKOVA-KIROVA, S. ZECCHI, H.M. BROTHERS, G.L. WENK & M.G. GIOVANNINI
- C394** **Neuronal Shc in neural development, plasticity, and brain aging**  
N. MORI
- C395** **Visualization of ageing-related changes in the perineuronal net density and composition in the somatosensory cortex of the mouse**  
D. NOWICKA, M. KARETKO-SYSA & J. SKANGIEL-KRAMSKA
- C396** **Analysis of gene expression profile by microarrays in SAMP8, a senescence accelerated mice**  
D. ORTUÑO-SAHAGÚN, A.E. ROJAS-MAYORQUÍN, C. GUZMÁN-BRAMBILA, J. FOLCH, A.M. CANUDAS, A. CAMINS & M. PALLAS
- C397** **Age-related changes in calbindin immunoreactivity in the central auditory system of the rat**  
L. OUDA, J. BURIANOVA & J. SYKA
- C398** **Uncovering molecular mechanisms of early-onset age-related memory deficits in CB1 receptor knockout mice**  
A. PIYANOVA, Ö. ALBAYRAM, K. MICHEL, R. BUCHALLA, B. LUTZ, A. ZIMMER & A. BILKEI-GORZO
- C399** **Behavioral and cellular markers of olfactory aging and their response to enrichment**  
N.L. REY, J. SACQUET, A. VEYRAC, F. JOURDAN & A. DIDIER
- C400** **Age-related changes in the expression of pro-autophagic protein ambra1 in mouse brain**  
S. SEPE, R. NARDACCI, F. FANELLI, G.M. FIMIA, F. CECCONI, M. PIACENTINI & S. MORENO
- C401** **Impaired BDNF signaling in hypothalamus may underlie accelerated ageing in WNIN obese mutant rats**  
J.K. SINHA, N.V. GIRIDHARAN & M. RAGHUNATH
- C402** **Running alters cytokine levels in the blood serum, cortex and hippocampus of aged rats**  
R.B. SPEISMAN, A. KUMAR, A. RANI, T.C. FOSTER & B.K. ORMEROD
- C403** **Aging, caloric restriction, and caloric excess result in adaptations in apoptosis-inducing factor, caspase 3, and cytochrome c in rat cortex**  
C.R. ZAMZOW, Z. MING, W.W. LAUTT & P.F. GARDINER

- C404** **Neuronal CREB (cAMP Responsive Element Binding)-1 mediates brain response to calorie restriction**  
S. FUSCO, C. RIPOLI, M.V. PODDA, L. LEONE, S. CHIATAMONE, G. TOIETTA, G. SCHÜTZ, M. MCBURNEY, A. RICCIO, C. GRASSI, T. GALEOTTI & G. PANI
- C405** **Malnutrition in infancy as a susceptibility factor for temporal lobe epilepsy in adulthood induced by pilocarpine experimental model**  
F.R. CABRAL, M.R. PRIEL, B.H.S. ARAÚJO, L.B. TORRES, E. LIMA, T.G. DO VALE, F. PEREIRA, H.A. AMORIM, E.A. CAVALHEIRO, D. AMADO & M.D.G. NAFFAH-MAZZACORATTI
- C406** **Capsaicin prevents kainic acid-induced epileptogenesis in mice**  
J.-G. LEE, J.-M. YON, T.-H. LEE, I.-J. BAEK, K.-W. OH, S.-S. NAHM, B.-J. LEE, Y.-W. YUN & S.-Y. NAM
- C407** **Cytoskeletal reorganisation and quantification of tau microtubule-associated protein in patients with temporal lobe epilepsy**  
Y. LEKOMTSEVA, G. GUBINA-VAKULIK & M. WHITTINGTON
- C408** **Neuronal degeneration following kainic acid induced status epilepticus in Wistar and genetic absence epileptic rats**  
Ü.S. ŞEHİRLİ, O. SARIÖZ, K. TEZCAN, E. SAKALLI, Y.Ö. ÇAKMAK, F. ONAT & R. GÜLHAN AKER
- C409** **The effect of repetitive spreading depression on neuronal damage in juvenile rat brain**  
M.J.S.R. PROF ALI GORJI
- C410** **NMDA and DHPG preconditioning induce ischemic tolerance with differential mechanisms in rat organotypic hippocampal slices**  
E. GERACE, E. ZIANNI, E. LANDUCCI, F. GARDONI, T. SCARTABELLI, G. MANNAIONI, F. MORONI, M. DI LUCA & D. PELLEGRINI-GIAMPIETRO
- C411** **Tolerance in two animal models of brain ischemia *in vivo* induced by preconditioning with NMDA receptor antagonists**  
D. MAKAREWICZ, M. DUSZCZYK, J.W. LAZAREWICZ & E. SALINSKA
- C412** **Ischemic preconditioning supresses alterations induced by hyperhomocysteinemia on SPCA CA2+ atpase gene expression**  
J. LEHOTSKY, M. PAVLIKOVA, M. KOVALSKA, P. KAPLAN & Z. TATARKOVA
- C413** **Attenuation of focal cerebral ischemia by bradykinin postconditioning**  
V. DANIELISOVA, J. BURDA, M. NEMETHOVA & M. GOTTLIEB
- C414** **Postconditioning with normobaric hypoxia differently reduces neuronal loss in two models of brain ischemia *in vivo***  
M. DUSZCZYK, D. MAKAREWICZ, M. MALEK, A. ZIEMBOWICZ, J.W. LAZAREWICZ & E. SALINSKA
- C415** **Comparison of ischemic and chemical postconditioning by mapping of Bcl2 and Bax immunoreactivity in the rat hippocampus**  
M. NEMETHOVA, V. DANIELISOVA, M. GOTTLIEB & J. BURDA
- C416** **Protective effect of the Ceylon green tea in apoptosis of hypoxic human brain epithelial cells**  
S.H. HUANG, Y.Z. ZHU & K.R.D. DE SILVA
- C417** **Group III metabotropic glutamate receptor agonists attenuate neuronal cell death in primary cortical cultures exposed to kainate excitotoxicity or oxygen-glucose deprivation**  
H. DOMIN, D. JANTAS & M. SMIALOWSKA
- C418** **Modulation of the expression of RAGE isoforms in a rat model of transient middle cerebral occlusion**  
R. GRECO, A.S. MANGIONE, D. AMANTEA, F. PETRELLI, G. NAPPI, F. BLANDINI, G. BAGETTA & C. TASSORELLI
- C419** **Indoleamine 2,3-dioxygenase is associated with nitric oxide-mediated neurotoxicity in focal cerebral ischemia in mice**  
S.A. HWANG, S.J. KIM, C.D. KIM & W.S. LEE
- C420** **Focal photothrombotic stroke affects expression and composition of perineuronal nets in cerebral cortex of the rat**  
M. KARETKO-SYSA, D. NOWICKA & J. SKANGIEL-KRAMSKA
- C421** **Effects of cannabinoids in models of cerebral ischemia**  
E. LANDUCCI, E. GERACE, T. SCARTABELLI, F. MORONI & D. PELLEGRINI-GIAMPIETRO
- C422** **Long-term remodeling of rat pial microcirculation after transient middle cerebral artery occlusion**  
D. LAPI, S. VAGNANI, T. MASTANTUONO, D. SAPIO & A. COLANTUONI
- C423** **Fructus mume rescued spatial memory impairments and altered MAPK signaling induced by chronic cerebral hypoperfusion in Wistar rat**  
J. MA, B.-R. CHOI, S.-H. HAN, C.-H. HAN, W.-K. JEON & J.-S. HAN
- C424** **Nerve Growth Factor (NGF) mimetics modulate ischemic brain damage**  
F. NUNNARI, E. GERACE, D. CIRELLI, G. CASTRONOVO, S. BONO, E. LANDUCCI, D. PELLEGRINI-GIAMPIETRO & F. COZZOLINO
- C425** **The effect of aging on medial frontal activity during verbal fluency monitored by multi-channel near-infrared spectroscopy**  
S. OBAYASHI & Y. HARA
- C426** **UPR response to transient global ischemia in 3- and 18-month-old rats**  
D. PÉREZ-RODRÍGUEZ, N. DÍAZ-MORALES, B. MARTÍNEZ-VILLAYANDRE, J.M. GONZALO-ORDEN, M. REGUEIRO PURRIÑOS & A. FERNÁNDEZ LÓPEZ



## POSTER PRESENTATION

- C427** **Activation of autophagy in a model of retinal ischemia following high intraocular pressure**  
A. PIRAS, D. GIANETTO, D. CONTE, A. BOSONE & A. VERCELLI
- C428** **The  $\gamma$ -secretase modulator CHF5074 elicits neuroprotection and increase histone acetylation in primary cortical neurons exposed to oxygen glucose deprivation**  
V. PORRINI, I. SARNICO, A. LANZILLOTTA, C. BRANCA, M. BENARESE, P.F. SPANO, B.P. IMBIMBO & M. PIZZI
- C429** **Hemorrhagic stroke: neuroprotective effects of peptide drug cortixin**  
V.P. REUTOV, A. KRUSHINSKY, V. KUZENKOV, E. SOROKINA, L. BAIDER, Z. KUROPTEVA, N. SAMOSUDOVA, O. GRANSTREM, I. POLETAEVA, A. KAMENSKY, V. KOSHELEV, D. ESIPOV, M. SVINOV, N. KOSITZYN & V. PINELIS
- C430** **Neuroprotective effect of San-Huang-Xie-Xin-Tang on subarachnoid hemorrhage in rat**  
J.-L. YEH, P.-C. HSU, I.-J. CHEN & A.-L. KWAN
- C431** **Prevention of cerebral artery dysfunction by KMUP-1 after subarachnoid hemorrhage: the role of BK<sub>Ca</sub> channels**  
B.-N. WU, S.-L. CHIA, J.-Y. CHEN, Y.-L. TSAI & I.-J. CHEN
- C432** **Calpain-mediated cleavage of Beclin-1 following retinal ischemic injury**  
F. CAVALIERE, R. RUSSO, G.P. VARANO, A. ADORNETTO, L.A. MORRONE, G. BAGETTA & M.T. CORASANITI
- C433** **NCX1 and NCX3: two new effectors of delayed preconditioning in brain ischemia**  
A. VINCIGUERRA, G. PIGNATARO, F. BOSCIA, E. ESPOSITO, R. SIRABELLA, O. CUOMO, G. DI RENZO & L. ANNUNZIATO
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- 16. Neurological disorders (Inflammation & other disorders)**
- C434** **Inflammatory response in rat brain chronically exposed to polychlorinated biphenyls and brominated flame retardants**  
B. DABROWSKA-BOUTA, M. FRONTCZAK-BANIEWICZ, G. SULKOWSKI, A. LENKIEWICZ & L. STRUZYNSKA
- C435** **Increased vascular endothelial growth factor in cerebrospinal fluid as a predictive marker for subsequent ventriculoperitoneal shunt infection**  
D.-H. PARK, J.-H. LEE, D.-B. BACK, S.-H. KANG, T.-H. CHO & Y.-G. CHUNG
- C436** **Acupuncture stimulation to HT8 acupoint suppresses kainic acid-induced inflammatory events in mouse hippocampus**  
S.-T. KIM, A.-R. DOO, H. LEE, C.S. YIN & H.-J. PARK
- C437** **A kinetic study of the cytokine/chemokines levels and disruption of blood-brain barrier in infant rats after pneumococcal meningitis**  
T. BARICHELLO, J.S. GENEROSO, A.L. CIPRIANO, G.D. SAVI, C. SILVESTRE, F. PETRONILHO, F. DAL-PIZZOL, M.C. VILELA & A.L. TEIXEIRA
- C438** **Tuberculous meningitis in Alexandria, Egypt**  
W.A. HAZZAH
- C439** **Temporal profile of inflammatory cytokines in the cortex of brain injured rats**  
J.T. COLE, C.L. DALGARD, W.S. KEAN, J.J. LUCKY, S. DESAI, D. MCMULLEN, H.B. POLLARD & W.D. WATSON
- C440** **Role of ABC transporter proteins in the inflammatory disease known Rasmussen's encephalitis**  
S. OROZCO-SUÁREZ, D. RAYO, R. GARCIA, J. DIEGOPÉREZ, I. FERIA-ROMERO, G. RAMÍREZ, M.I. FRAIRE, R. CABRERA, J. SOSA, I. GRIJALVA & L. ROCHA
- C441** **Differential effects of Theiler's virus infection on hippocampal cell proliferation and neuronal progenitor cells in C57BL/6 and SJL mouse strains at two time points**  
M. JAFARI, V. HAIST, W. BAUMGÄRTNER, S. WAGNER, V.M. STEIN, A. TIPOLD, H. WENDT & H. POTSCCHKA
- C442** **thy1GFP-M mice as novel tool to investigate brain dendritic cells**  
C. LAPERCHIA, A.L. MASCARO, L. SACCONI, G. GRASSI ZUCCONI, M. BENTIVOGLIO, M. BUFFELLI & F.S. PAVONE
- C443** **Neuraminidase expression influences the spread of rabies virus in the central nervous system of infected animals**  
B.M. JAHUN, A.B. OGUNKOYA, A.J. NOK & J.U. UMOH
- C444** **Wakefulness monitoring and neuroinflammation in experimental African trypanosomiasis**  
P.F. SEKE ETET, J.M. GEMECHU, G. GRASSI-ZUCCONI, G. BERTINI & M. BENTIVOGLIO
- C445** **CNS expression of Aquaporin 4 as recognized by NMO-IgG from Neuromyelitis Optica patients**  
S. AMBROSINI, S. SORBI, D. MINCIACCHI & S. MATÀ
- C446** **The beneficial effects of therapeutic plasma exchange on the frequency, proportion and function of the most important subsets of CD4+ T lymphocytes in the immuno-pathogenesis of multiple sclerosis: regulatory T cells and Th17 cells**  
A. JAMSHIDIAN
- C447** **Pharmacological blockade of glutamate receptors (mGluR and iGluR) reduces neurological deficits in EAE rats**  
G. SULKOWSKI, B. DABROWSKA - BOUTA, A. LENKIEWICZ & L. STRUZYNSKA

- C448** **The S1P1 receptor subtype inhibits demyelination and regulates chemokine release in cerebellar slice cultures**  
G.K. SHERIDAN & K.K. DEV
- C449** **Complex computational analysis of gait and visual evoked potentials on patients with multiple sclerosis**  
B. CATALIN, C.M. NEAMȚU, T. AVRAMESCU, L. RUSU, D. GEORGESCU, O.E. NEAMȚU, M. GEORGESCU, A. NESTIANU, I. STREATA, D. ENESCU-BIERU & M. IANCĂU
- C450** **The role of S1P receptors in a T cell-induced demyelination model**  
A.J. PRITCHARD, G.K. SHERIDAN & K.K. DEV
- C451** **Gene expression profile of brain cells in response to C-Phycocyanin treatment in the experimental autoimmune encephalomyelitis model**  
G. PENTON-ROL, N. LAGUMERSINDEZ-DENIS, M. LUCA, A. BERGAMI, M. NAZABAL-GALVEZ, J.R. FERNANDEZ-MASSO, A. CINTADO-BENITEZ, N. POLENTARUTTI, E. BONAVITA, A. LLOPIZ-ARZUAGA, G. GUILLÉN-NIETO, P.A. LOPEZ-SAURA, R. FURLAN, A. MANTOVANI & E. PENTON-ARIAS
- C452** **TNF- $\alpha$  mediates anxiety-like behavior in experimental autoimmune encephalomyelitis**  
N. HAJI, L. SACCHETTI, D. FRESEGNA, G. MANDOLESI, A. GENTILE, A. MUSELLA, H. SEPMAN, P. STRATA & D. CENTONZE
- C453** **Ribosomal protein S6 is hypoactivated in cerebellar and cerebral cortices of animal models of Rett syndrome**  
E. CALCAGNO, N. MORELLO, E. CASTROFLORIO, E.M. BOGGIO & M. GIUSTETTO
- C454** **MeCP2 T158A mutation disrupts methyl-DNA binding, protein stability, and neuronal synchronization leading to Rett syndrome-like phenotypes in mice**  
D. GOFFIN, M. ALLEN, M. AMORIM, L. ZHANG, J. WANG, A.S. REYES, C. ONG, S. COHEN, L. HU, G.C. CARLSON, S.J. SIEGEL, M.E. GREENBERG & Z. ZHOU
- C455** **Generation and characterization of MeCP2<sup>270</sup> mutant mice**  
C. BODDA, K. CAN, L.A. KIFAYATHULLA, H.Y. AGBEMENYAH & A.U. MANNAN
- C456** **Functional assessment of knee joint mobility in adult persons with Down syndrome**  
M.S. VALLE, A. CASABONA, M. PISASALE, M.R. PANTÒ & M. CIONI
- C457** **Behavioral characterization of the PAK3 knockout mouse: a model of X-linked mental retardation**  
S. FARLEY, J.-V. BARNIER, S. LAROCHE & C. VAILLEND
- C458** **Optimizing a luminex-based immunoassay for Fragile-X Syndrome (FXS) screening**  
R.J. KASCSAK, R.B. KASCSAK, G. LAFAUCI, P. METHA, T. ADAYEV, C. CHEN, H. HONG & W.T. BROWN
- C459** **Dysfunction of GABAergic neurons in the visual cortex of Engrailed 2 mouse model of autism**  
S. GENOVESI, M. ALLEGRA, P. SGADÒ, M. CALEO & Y. BOZZI
- C460** **Genes and pathways differentially expressed in the forebrain of Engrailed-2 null mice**  
G. PROVENZANO, P. SGADÒ & Y. BOZZI
- C461** **Organoarsenic compound-induced central nervous disorders in the chronic phase**  
K. NAKAMAGOE, K. ISHII, T. HORAGUCHI, S. TAKIGUCHI, A. SHIMIZU & A. TAMAOKA
- C462** **Eye-movements during “virtual” grasping in unilateral neglect patient**  
M. BALCONI, D. CRIVELLI, M. SOZZI, L. PISANI, A.P. CANNATA & S. AMENTA
- C463** **Clinico-anatomical correlates of visuo-spatial neglect**  
M.N. TOBA, R. MIGLIACCIO, M. THIEBAUT DE SCHOTTEN, P. PRADAT-DIEHL & P. BARTOLOMEO
- C464** **Endoplasmic reticulum stress following traumatic brain injury**  
V.P. NAKKA & R. VEMUGANTI
- C465** **Astroglial-NF- $\kappa$ B, oligogenesis and oligodendrocyte death following spinal cord injury**  
J. JOHNSTONE, J. RICARD, V. BRACCHI-RICARD & J.R. BETHEA
- C466** **IGF-1 administration after a mild traumatic brain injury in mice activates the adaptive arm of ER stress**  
V. RUBOVITCH, A. SHACHAR, H. WERNER & C.G. PICK
- C467** **Selective activation of  $\alpha 7$  nicotinic acetylcholine receptor subunit (nAChR $\alpha 7$ ) as a new anti-inflammatory strategy prevents muscular degeneration in *mdx* mice**  
P.E.C. LEITE, L. GANDIA, R. DE PASCUAL, W.C. SANTOS, J. LAGROTA-CANDIDO & T. QUIRICO-SANTOS
- C468** **Etanercept, a TNF-alpha inhibitor, penetrates into the cerebral fluid system to improve outcome of experimental traumatic injury**  
C.-P. CHANG, C.-U. CHEONG, C.-M. CHAO, J.-W. LIN, M.-W. CHANG, C.-C. WANG, M.-T. LIN, C.-Z. YANG, C.-C. HSU & C.-C. CHIO
- C469** **Hyperbaric oxygen therapy protects against experimental traumatic brain injury**  
M.-T. LIN, C.-P. CHANG, C.-C. CHIO, K.-C. LIN, C.-M. CHAO, K.-C. NIU, M.-W. CHANG, C.-U. CHEONG, C.-H. CHANG, J.-W. LIN & J.-R. KUO
- C470** **Post-traumatic changes in mitochondrial function precede cognitive impairment**  
W.D. WATSON, J.J. LUCKY, J.E. BUONORA, M.A. SELAK, W.S. KEAN, A.M. YARNELL, D.C. MCMULLEN, N.E. GRUNBERG & J.T. COLE
- C471** **Upregulation of heme Oxygenase-1 ameliorates methamphetamine-induced loss of dopamine transporter in mouse striatum**  
M.T. LEE, D.H.T. YEN & J.C. YEN



## POSTER PRESENTATION

- C472** **Olfactory and respiratory lamina propria transplantation after spinal cord transection in rats: Effects on functional recovery and axonal regeneration**  
L.A. CENTENARO, M.D.C. JAEGER, J. ILHA, M.A. DE SOUZA, P.I.K. GASPAS, N.B. CUNHA, S. MARCUZZO & M. ACHAVAL
- C473** **Use of serum S100 protein as a predictor of outcome after mild or moderate traumatic brain injury**  
H.A. ELSHATOURY, A.A.A. ELSAYED, A.E. GALHOOM & O.S. EL-WARDANY
- C474** **Etanercept, a tumor necrosis factor- $\alpha$  inhibitor, protects against experimental traumatic brain injury**  
J.-R. KUO, T.-J. CHUANG, C.-U. CHEONG, C.-M. CHAO, J.-W. LIN, M.-W. CHANG, M.-T. LIN, C.-Z. YANG, C.-C. HSU, C.-P. CHANG & C.-C. CHIO
- C475** **Chronic imaging of the in vivo spinal cord using two-photon fluorescent microscopy: a method for placing and maintaining spinal cord windows**  
K.K. FENRICH, P. WEBER, M. HOCINE, G. ROUGON & F. DEBARBIEUX
- C476** **Grafted human embryonic progenitors expressing neurogenin-2 stimulate axonal sprouting and improve motor recovery after severe spinal cord injury**  
G. BONIFACE, C. SERGUERA, N. LONJON, J. MALLET, A. PRIVAT & F.E. PERRIN
- C477** **Modulation of neurite outgrowth by a novel thiourea derivative**  
L.-C. OU, J.-H. CHERN & S.-H. YEH
- C478** **Sural nerve biopsy in chronic inflammatory demyelinating polyneuropathy with and without concomitant diseases**  
S. EL MOUSLY, R.R. MOUSTAFA, N.G. EL HEFNAWY, H. SHAHEEN, S.A. MOHAMED & A. EL ETRIBI
- C479** **Functional characterization in zebrafish of the WNK1/ HSN2 isoform causing a human peripheral neuropathy**  
V. BERCIER, E. BRUSTEIN, M. LIAO, P. DION, G.A. ROULEAU & P. DRAPEAU
- C480** **Galectin-3 expression in a gliosarcoma experimental model induced by orthotopic injection of NG97ht cells**  
K.M. FURUZAWA, C.M.L. MACHADO, R.Y. IKEMORI, A.S. VIEIRA, J. VASSALLO, F. LANGONE, R. CHAMMAS & F. ROGERIO
- C481** **Translational neuropathology: correlation of clinical and molecular genetic data in cases of anaplastic astrocytoma**  
R. SCHÖBER, H. HOLLAND, P. AHNERT, W. KRUPP, H. KIRSTEN, D. FRITZSCH & J. MEIXENSBERGER
- C482** **Minocycline inhibits the growth of glioma through endoplasmic reticulum stress-induced autophagic cell death and caspase activation**  
W.-T. LIU, C.-H. YEH & P.-W. GEAN
- C483** **REM sleep deprivation and restriction increase blood-brain barrier permeability to Evans blue**  
B. GOMEZ-GONZALEZ, G. HURTADO-ALVARADO & J. VELAZQUEZ-MOCTEZUMA
- C484** **Disturbances of paradoxical sleep and changes of M2 muscarinic cholinergic receptors density produced by cessation of multiple administrations of the antagonists of brain muscarinic cholinergic system**  
N. NACHKEBIA, E. CHKHARTISHVILI, N. MAGLAKELIDZE, O. MCHEDLIDZE, E. CHIJAVADZE, M. BABILODZE, S. DZADZAMIA, E. ZHURAVLIOVA, D. MIKELADZE & T. ONIANI
- C485** **The structural changes of sleep-wakefulness cycle produced by NMDA receptors blockade**  
O. MCHEDLIDZE, E. CHKHARTISHVILI, E. CHIJAVADZE, M. BABILODZE, S. DZADZAMIA, T. ONIANI & N. NACHKEBIA
- C486** **Disturbances in ultradian distribution of different behavioral states of sleep cycles in animal model of depression with probable deficiency of brain monoamine content**  
E. CHKHARTISHVILI, E. CHIJAVADZE, O. MCHEDLIDZE, S. DZADZAMIA, M. BABILODZE, N. DARCHIA, N. ONIANI, N. MAGLAKELIDZE & N. NACHKEBIA
- C487** **Transplant and pharmacological therapy in a rodent model of narcolepsy**  
A.K. DE LA HERRÁN-ARITA, D. MILLÁN-ALDACO, M. PALOMERO-RIVERO, M. GUERRA-CRESPO & R. DRUCKER-COLÍN
- C488** **Effects of pramipexole or chronic physical exercise on a new animal model of restless legs syndrome/periodic leg movement**  
A.M. ESTEVES, R. FRUSSA-FILHO, C. LOPES, D.A. CAVAGNOLLI, M.K. FRANK, R.M. ARIDA, S. TUFIK & M.T. DE MELLO
- C489** **Continuous activation of GABA<sub>A</sub> receptors within the lateral hypothalamus increases NREM sleep at neutral and cold ambient temperature in rats**  
M. MASTROTTO, A. AL TZACHMANI, R. AMICI, M. CERRI, F. DEL VECCHIO, M. LUPPI, D. MARTELLI, E. PEREZ, D. TUPONE & G. ZAMBONI
- C490** **Relationships between prion protein and clock gene expression**  
M. BONACONSA, R. WANG, G. GRASSI ZUCCONI & M. BENTIVOGLIO
- C491** **Brain dendritic cells in experimental African trypanosomiasis**  
G. GRASSI-ZUCCONI, C. LAPERCIA, P.F. SEKE ETET, A. ANDRIOLI, N. VAN REET, P. BUSCHER, F.S. PAVONE, M. BUFFELLI & M. BENTIVOGLIO



- C492** Activation of c-Fos in the brain of stressed rats (*Rattus norvegicus*) of a wild strain  
R.L. DJAVADIAN, I. GOZDZ, N. CHLODZINSKA, W. PISULA & K. TURLEJSKI
- C493** Study of hippocampus-dependent learning in Nogo-A-deficient rats shows a deficit in behavioral flexibility but no deficit in visuospatial working memory  
I. PETRASEK, I. PROKOPOVÁ, Š. BAHNÍK, Z. KRISTOFIKOVA, M. VRAJOVA, S. BERGER, K. SCHONIG, D. BARTSCH, K. VALEŠ, D. RIPOVA & A. STUHLIK
- 
- 17. Psychiatric & behavioural disorders (Compulsive & panic behaviour, other disorders)**
- 
- C494** Brain regions involved in predatory behaviour are activated during abnormal, hypoarousal-driven intraspecific aggression in the rat  
A. TULOGDI, M. TOTH, J. HALASZ, E. MIKICS & J. HALLER
- C495** Involvement of 5-HT1A receptors of the dorsomedial hypothalamic nucleus in the mediation of the antipanic-like effect caused by chronic fluoxetine administration  
H. ZANGROSSI & V. DE BORTOLI
- C496** Role of neurochemistry in the adaptive value of behavior: competition between maternal behavior and the sick during lactation  
A.F. NASCIMENTO
- C497** Maternal separation increases anxiety-like behavior only in male mice  
S.E. KAWAKAMI, I.M.H. QUADROS & D. SUCHECKI
- C498** Serotonergic neurons of dorsal raphe nucleus attenuate defensive behaviour elaborated by dorsomedial hypothalamus  
A. FRANCISCO, R.L. FREITAS & N.C. COIMBRA
- C499** Relationship between phenotypic characteristics and comorbidities of obsessive compulsive disorder  
B. VISWANATH, J.C. NARAYANASWAMY, A.V. CHERIAN, T. KANDAVEL, S.B. MATH & J.Y. REDDY
- C500** Knockdown of serotonin (5-HT) 5-HT<sub>2c</sub> receptor in the nucleus accumbens shell differentially alters impulsive-compulsive behavioral indices  
K.A. CUNNINGHAM, N.C. ANASTASIO, S.J. STUTZ, R.M. SEARS, R.G. FOX, J.D. HOMMEL, T.A. GREEN, R.J. DI LEONE & F.G. MOELLER
- C501** Body sway patterns in patients with social anxiety disorder viewing fearful facial expressions  
K.C. ARRAIS, I.M.P. LINARES, J.P. MACHADO-DE-SOUSA, N.B. DE MELO, M.N. LEVITAN, M.H.N. CHAGAS, A.E. NARDI, A.W. ZUARDI, J.E.C. HALLAK & J.A.S. CRIPPA
- C502** Gestational chronic mild stress: a potential animal model of stress-induced postpartum depression?  
N.H.K. ABDUL AZIZ, D.A. KENDALL & M.-C. PARDON
- C503** Clomipramine, but not haloperidol or aripiprazole, inhibits quinpirole-induced water contrafreeloading, a putative animal model of compulsive behavior  
C. SCHEPISI, L. DE CAROLIS, M. MILELLA & P. NENCINI
- C504** Utilization pattern of a state sponsored psychiatric ambulance service in Bangalore, India - a descriptive study  
P.S. KAMAT, N. KUMAR C, K. SHATRUNJAYAN, N.R. PRASHANTH & H. CHANDRASHEKAR
- C505** Neonatal immune activation by bacterial or viral stimulation in an animal model of schizophrenia: effects on behaviour and level of cytokines  
H. TEJKALOVÁ, J. KLASCHKA & Š. RŮŽIČKOVÁ
- C506** Inverse effects of lipopolysaccharide on anxiety in pregnant mice and male offspring  
J. SOLATI & A.-A. SALARI
- C507** Long-term effect of early life trauma is determined by genetic predisposition of the individual  
T.-L. STERLEY, F.M. HOWELLS & V.A. RUSSELL
- C508** Involvement of microRNAs in autism and autism spectrum disorders  
P.J. ROGUE
- C509** Genes for attention deficit hyperactivity disorder (ADHD) related in silico to ischemia-hypoxia response and vascular factors in the brain  
R. SCHMIDT-KASTNER & N. PITTS
- C510** Understanding the neural basis of motor dysfunction in mouse models of Rett Syndrome  
W. LIAO & S.-H. SU
- C511** The ADHD-susceptibility gene *Iphn3.1* modulates dopaminergic neuron formation and locomotor activity during zebrafish development  
M. LANGE, W. NORTON, M. COOLEN, M. CHAMINADE, P. VERNIER, K.-P. LESCH & L. BALLY-CUIF
- C512** Mouse models of advanced paternal age: relevance to neuropsychiatric disorders  
C.J. FOLDI, D.W. EYLES, T. FLATSCHER-BADER, J.J. MCGRATH & T.H.J. BURNE
- C513** Early and adult hippocampal TGF-beta1 overexpression have opposite effects on behaviors relevant to autism  
A.M. DEPINO & L. LUCCHINA
- C514** The role of amygdala in the valproate-induced rat autism-like model  
Y.-H. CHAN, P.-W. GEAN & P.-S. CHEN
- C515** Gestational/lactational exposure to organophosphorous pesticides in mice affects social behavior and related brain neuroendocrine markers: relevance for children's vulnerability to neurodevelopmental disorders  
A. VENEROSI PESCIOLINI, S. TAIT, L. STECCA, L. RICCERI, A. MANTOVANI & G. CALAMANDREI



## POSTER PRESENTATION

- C516 Behavioral study of offspring of female rats supplemented with sodium selenite during pregnancy and lactation**  
A.L.B. SILVEIRA, R.L. MELO, G.E. IMPÉRIO, J.R. MACEDO, C. SILVA-ALMEIDA, F.A.C. CEARA, L.C. REIS & W.S. CORTES
- C517 Effects of maternal ethanol intake during pregnancy and lactation on the fear, anxiety and spatial memory in pups at different stages of brain development**  
R.M. ÁLVARES, G.M. MIQUELIN, M.S. GRAÇA, V. BORTOLANI, B.O. BORGES, M.M. IYOMASA & M.L.N.M. ROSA
- C518 Increased secretory material in the subcommissural organ and ventricular area in bile duct ligated rats**  
O. ELHIBA, H. GAMRANI & S. AHBOUCHA
- C519 Traffic of leukocytes in the central nervous system is associated with cytokine and chemokine up-regulation in a model of severe sepsis encephalopathy**  
C.M. COMIM, M.C. VILELA, L.S. CONSTANTINO, F. PETRONILHO, F. VUOLO, H. HOJAS, A.S. MIRANDA, N. LACERDA-QUEIROZ, D.H. RODRIGUES, O.J. CASSOL-JR, J.L. ROCHA, T. BARICHELLO, A.L. TEIXEIRA, J. QUEVEDO & F. DAL-PIZZOL
- C520 Epigallocatechin gallate attenuates behavioral and biochemical deficits in experimental paradigm of chronic fatigue syndrome**  
A.K. SACHDEVA, A. KUHAD & K. CHOPRA
- C521 Epigenetic analysis of BDNF Val66Met transgenic mouse reveals changes in specific BDNF transcripts**  
S. CORNA, A. MALLEI, C. BENEVENTO, D. TARDITO, G. RACAGNI, F.S. LEE & M. POPOLI
- C522 Neuropeptide S attenuates the increase in REM sleep induced by ketamine anesthesia**  
T. KUSHIKATA, G. CALO', R. GUERRINI, K. MORIYA, M. OISHI, C. YAKOSHI & K. HIROTA
- C523 Study of histamine H3 receptor antagonists in a cognitive test battery in rodents**  
J. LASZY, I. GYERTYÁN, É. SCHMIDT & G. LÉVAY
- C524 Genome-wide epigenetic analysis in transgenic mice with the human polymorphism (Val66Met) of BDNF gene**  
A. MALLEI, S. CORNA, C. BENEVENTO, D. TARDITO, G. RACAGNI, F.S. LEE & M. POPOLI
- C525 Seven-day pretreatment with nobiletin mitigates MK-801-induced hyperactivity of ddY mice in an elevated-plus maze**  
T. SATO, S. ABE, W. SUN, A. YOKOSUKA, Y. SASHIDA, Y. MIMAKI, J. GYOBA & T. YAMAKUNI
- C526 Characterization of astrocyte specific D-amino acid oxidase overexpressing mice**  
S. IMBEAULT, D.-M. OTTE, H. SCHRAGE & A. ZIMMER
- C527 Neuroprotective effect of n-3 PUFA on chronic NMDA induced neuroinflammatory and arachidonic acid cascade markers in rat brain**  
J.S. RAO, M. KELLOM, H.-W. KIM, Y. CHEON, A. TAHA & S.I. RAPOPORT
- C528 When does a word become meaningful?**  
N.A. TAROYAN & R.I. NICOLSON
- 
- 20. History, teaching, neuroethics, awareness & social impact**
- H001 Scientists and the unification of Italy**  
M. BENTIVOGLIO & M.C. STEFANINI
- H002 Using impulse reviewer training sites to engage students in basic research**  
K.B. DAVISON, M. BARKHUIZEN, K. CRISP, K. CRONISE, S. SMITH, S.M. SWEITZER, S. SYMINGTON, V. TURGEON & L.S. JONES
- H003 Neuroscience and teacher training: a dialogue needed**  
F.A.H. DE CARVALHO, A.M. MAIATO & D.M. BARROS
- H004 IBRO inter-regional activities initiative**  
K.A. KORALEK, R. ROCKSTAD-REX & M. DI LUCA
- H005 The international neurobioethics multidisciplinary study and research group: report of meetings, seminars and future work**  
A. GINI, A. GARCIA & R. PASCUAL
- H006 Neurology training in Ethiopia: past, present and future**  
J. GEMECHU, G. ZENEBE, M. ZEBENIGUS & Y. WOLDEAMANUEL
- H007 Teaching tools in Africa**  
S. JULIANO
- H008 Milestones in neuroscience of epilepsy partialis continua**  
Y. LEKOMTSEVA
- H009 An epistemological investigation within the neurosciences: the utility of the comparison with some psychotherapeutic models**  
M.A. MANGIONE
- H010 Ethical intelligence and education for culture of peace: the neuro-physiological dynamics in a sustainable way**  
R.D.F. MIGLIORI
- H011 Objective-based learning and integrated approach to assessment of neuroscience practical instruction for medical students**  
A.B. ODUTOLA
- H012 The evaluation of the Croatian version of the Epworth sleepiness Scale and STOP questionnaire as screening tools for obstructive sleep apnea syndrome**  
R. PECOTIC, I. PAVLINAC, M. VALIC, N. IVKOVIC & Z. DOGAS

- H013**    **The prefix ,Neuro‘ in terms like neuromarketing, neuroeconomics: truly transdisciplinary approaches or just catchy hyped up syllables?**  
S. PRABHU, H. MISRA, B. AUGIER & A. SHERDIL
- H014**    **Five years after: reviewing progress and forthcoming challenges of a novel Canadian neuroethics research program**  
E. RACINE & E. BELL
- H015**    **The mystical dimensions of neuroethics**  
M. RAZA
- H016**    **Education on drug abuse to children and adolescents from poor and violent urban communities**  
M. ROCHA
- H017**    **The research nursery “neuroplasticity”**  
L. FRANCIS, M. AVILA, A.M. SABOGAL GUAQUETA, E. MAYORGA, D. NAVARRO, A. BONILLA, N. BONILLA, L. DE LOS REYES, L. TRUJILLO, M. HERNANDEZ, J. SALGUERO, A. ROJAS, J. DIAZ, J. MONROY, L. ROJAS, C. MURCIA, U. FLOREZ & A. BENITEZ
- H018**    **Awareness and social impact of neuroscience education in India: a students‘ perspective**  
J.K. SINHA & S. GHOSH
- H019**    **Neuroethics in a deontological and utilitarian context. An ERP analysis on the “emotional effect”**  
A. TARENZI & M. BALCONI
- H020**    **From Kinshasa to Kigali, from Qindao to Manasar: the IBRO initiative in encouraging young neuroscientists around the world**  
S. SARA, K.M. MOREIRA & R. AKINYEMI

**Scientific Program**

**Monday July 18**

# ACS Chemical Neuroscience

CALL FOR PAPERS

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- Neuronal diseases—basis, detection, and treatment
- Mechanism of aging, learning, memory and behavior
- Pain and sensory processing
- Neurotoxins
- Neuroscience-inspired bioengineering
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- Neuroimaging agents and technologies
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**08:30-09:30 PLENARY LECTURE PL8**

Introduced by: **Donata Oertel** (Madison, USA)

Defining the neuronal circuitry of fear  
**Andreas Lüthi** (Basel, Switzerland)

**Auditorium Verdi**

S18.2 – 10:10

The molecular and cellular effects of sleep deprivation on hippocampal function

**Ted Abel** (Philadelphia, USA)

S18.3 – 10:40

Sleep deprivation effects on learning and memory: the role of glucocorticoids

**Paula Tiba** (Sao Paulo, Brazil)

S18.4 – 11:10

Consequences of mild sleep disruption: changes in regional brain activity and learning strategy

**Peter Meerlo** (Groningen, The Netherlands)

**09:40-11:40 SYMPOSIUM S16**

**SYNAPTIC AND NETWORK PLASTICITY IN DEVELOPMENT AND LEARNING**

Chaired by: **Ying-Shing Chan** (Hong Kong, China)

**Auditorium Verdi**

S16.1 – 09:40

A role of endocannabinoids in development and plasticity of inhibitory circuits in the visual cortex

**Tadaharu Tsumoto** (Wako, Japan)

S16.2 – 10:10

The role of nitric oxide and GluR1 in experience-dependent plasticity in the somatosensory cortex

**Kevin Fox** (Cardiff, UK)

S16.3 – 10:40

Acquisition of glutamate receptors in central vestibular synapses is crucial for developmental recognition of spatial orientation

**Ying-Shing Chan** (Hong Kong, China)

S16.4 – 11:10

Role of NMDA receptors in synaptic transmission and plasticity in the amygdala

**Pankaj Sah** (Brisbane, Australia)

**09:40-11:40 SYMPOSIUM S19**

**MOTOR NEURONS: FROM DEVELOPMENT TO DISEASE**

Chaired by: **Angelo Poletti** (Milan, Italy) and **Caterina Bendotti** (Milan, Italy)

**Room Vittorio Emanuele II**

S19.1 – 09:40

From neuronal precursors to motoneuronal cells. A promise for understanding and counteracting disease.

**Georg Haase** (Marseille, France)

S19.2 – 10:10

Induction of mutant proteins clearance in Amyotrophic Lateral Sclerosis and SpinoBulbar Muscular Atrophy

**Angelo Poletti** (Milan, Italy)

S19.3 – 10:40

Toxicity mediated by a sumoylated glutamate transporter c-terminus fragment: an unconventional role for EAAT2 in motor neuron degeneration in ALS

**Davide Trotti** (Philadelphia, USA)

S19.4 – 11:10

Axonal transport in motor neurons: from in vitro screens to real time in vivo assays

**Giampietro Schiavo** (London, UK)

**09:40-11:40 SYMPOSIUM S17**

**REGULATION OF PRESYNAPTIC CALCIUM CHANNEL ACTIVITY**

Chaired by: **Gary Stephens** (Reading, UK)

**Room Mazzini**

S17.1 – 09:40

Regulation of presynaptic calcium channels and short-term synaptic plasticity

**William Catterall** (Seattle, USA)

S17.2 – 10:10

Differential effects of presynaptic calcium channel subtypes in control of synaptic transmission

**Richard Tsien** (Stanford, USA)

S17.3 – 10:40

Spatial and temporal regulation of calcium channels

**Sumiko Mochida** (Tokyo, Japan)

S17.4 – 11:10

Regulation of calcium channel activity by auxiliary alpha2delta subunits

**Annette Dolphin** (London, UK)

**09:40-11:40 SYMPOSIUM S20**

**SYNAPTIC PROTEIN NETWORKS IN NEUROLOGICAL AND PSYCHIATRIC DISEASES**

Chaired by: **Michela Matteoli** (Milan, Italy)

**Room Garibaldi**

S20.1 – 09:40

Synaptic gene networks in attention and cognition disorder

**Mattijs Verhage** (Amsterdam, The Netherlands)

S20.2 – 10:10

Modulation of calcium dynamics by SNAP-25, a synaptic protein involved in different psychiatric disorders

**Michela Matteoli** (Milan, Italy)

S20.3 – 10:40

Synaptic proteins and autism spectrum disorders

**Nils Brose** (Göttingen, Germany)

S20.4 – 11:10

mRNA metabolism and synaptic dysfunctions: insights from the Fragile X Syndrome

**Claudia Bagni** (Leuven, Belgium)

**09:40-11:40 SYMPOSIUM S18**

**THE ROLE OF SLEEP IN LEARNING AND MEMORY FORMATION: FROM MOLECULAR MECHANISMS TO COGNITIVE FUNCTION**

Chaired by: **Debora Hipolide** (Sao Paulo, Brazil) and **Peter Meerlo** (Groningen, The Netherlands)

**Room Cavour**

S18.1 – 09:40

Sleep-related brain oscillations and memory consolidation

**Susan Sara** (Paris, France)

## 11:40-14:15 POSTER SESSION D

(see detail page 138)

Posters should be placed on the boards from 9:30 on each day and removed by 17:30. No responsibility will be taken for posters which are left behind. **Posters will be attended by the Presenting Author from 11:40 to 14:15 on each day.**

The poster boards are numbered and adhesive material will be available at each board (please do not use drawing pins or thumbtacks). **The number of the abstract corresponds to the number of the poster panel.**

The Posters for **Topic 20 (History, teaching, neuroethics, awareness & social impact)** will be on display for the entire period of the congress (from Friday, July 15 to Monday, July 18) and will be attended by the Presenting Author from 11:40 to 14:15 on the first day, Friday, July 15.

**Italian Society of Neuroscience (Young Investigator Visiting Programme) Poster Prize:** The best posters by participants from low-income countries will be selected each day by a Selection Committee and awarded at the late afternoon Plenary Lecture at 17:30 of each day.

01. Nervous system development & developmental disorders (Neurogenesis)
02. Axonal guidance, synaptic formation & trophic factors (Synaptic formation & trophic factors)
03. Glia (Microglia, cancer & miscellanea)
04. Stem cells: neural injury & repair (Neurogenesis)
07. Synaptic transmission & signal transduction (Pharmacology & disease)
08. Neural plasticity (Physiology of circuit plasticity)
10. Pain (Receptors, channels & transmitter systems)
12. Motor systems (Movement & coordination)
13. Learning & memory (Localization & animal models)
14. Cognition & emotion (Food intake, reward, fear & anxiety)
15. Neurodegeneration & aging (ALS, Parkinson & Huntington's disease)
16. Neurological disorders (Ischemia, hypoxia & neurotoxicity)
17. Psychiatric & behavioural disorders (Anxiety & stress-related disorders)
20. History, teaching, neuroethics, awareness & social impact

## 12:30-13:30 SPECIAL EVENT SE11

Room Mazzini

**ICSU, THE INTERNATIONAL COUNCIL FOR SCIENCE: SCIENCE AND THE USE OF SCIENTIFIC KNOWLEDGE**

**Maurizio Iaccarino** (Naples, Italy)

## 12:30-14:00 SPECIAL EVENT SE12

Room Cavour

**FUNDING OPPORTUNITIES AND GRANT WRITING PRIMER  
WOMEN IN WORLD NEUROSCIENCE (WWN) WORKSHOP**

Chaired by: **Jean King** (Worcester, USA) and **Orly Weinreb** (Haifa, Israel)

SE12.1 – 12:35

NIH funding opportunities for international collaborations and fellowships  
**Emmeline Edwards** (Bethesda, USA)

SE12.2 – 12:55

Networking with EU (European Union) grants  
**Marina Bentivoglio** (Verona, Italy)

SE12.3 – 13:15

Funding sources from across the globe for young neuroscientists  
**Orly Weinreb** (Haifa, Israel)

Poster Area

SE12.4 – 13:35

Successful grant writing strategies and tips for sailing through peer review  
**Jean King** (Worcester, USA)

## 12:30-14:00 SPECIAL EVENT SE13

Room Garibaldi

**FENS/JNS/IBRO/SfN SYMPOSIUM ON LEGAL TRENDS ON THE USE OF ANIMALS IN RESEARCH ACROSS THE WORLD**

Chaired by: **Roberto Caminiti** (Rome, Italy) and **Sharon Juliano** (Bethesda, USA)

Introduction – 12:30

**Roberto Caminiti** (Rome, Italy)

SE13.1 – 12:40

The status of legal rights for animals in the USA  
**Sharon Juliano** (Bethesda, USA)

SE13.2 – 13:00

Bioethics and animal research in Latin America: Status and challenges  
**Pedro Maldonado** (Santiago, Chile)

SE13.3 – 13:20

Our campaigns for legislations on neuroscience research using experimental animals in Japan  
**Kiyoshi Kurata** (Hiroasaki, Japan)

SE13.4 – 13:40

The consequences of the new EU Directive on protection of animals on neuroscience research in Europe  
**Kris Turlejski** (Warsaw, Poland)

## 12:00-14:00 SPECIAL EVENT SE14

Room Vittorio Emanuele II

**JOINT MEETING BETWEEN THE FRENCH AND ITALIAN NEUROSCIENCE SOCIETIES**

### SDN-SINS SPECIAL LECTURE 2

Introduced by: **Philippe Vernier** (Gif-sur-Yvette, France)

SE14.1 – 12:00

Tracking the memory trace during systems consolidation  
**Bruno Bontempi** (Bordeaux, France)

### SDN-SINS MINISYMPOSIUM 4

**CELLULAR MECHANISMS IN PAIN SENSITIVITY**

Chaired by: **Marc Landry** (Bordeaux, France) and **Valerio Magnaghi** (Milan, Italy)

SE14.2 – 12:35

Spinal functions of pre- and post-synaptic GABA-B receptors in neuropathic pain  
**Marc Landry** (Bordeaux, France)

SE14.3 – 12:55

Vanilloids increase neural activity and microglia caspase-3 in the prefrontal cortex of neuropathic mice  
**Sabatino Maione** (Naples, Italy)

SE14.4 – 13:15

Peripheral acid-sensing ion channels in pain  
**Eric Lingueglia** (Sophia Antipolis, France)

SE14.5 – 13:35

Role of peripheral metabotropic GABA-B receptor in nociception  
**Valerio Magnaghi** (Milan, Italy)



**14:15-15:45 WORKSHOP W31**

Room Vittorio Emanuele II

**NEUROTRANSMITTER TRANSPORTERS IN SYNAPTIC HOMEOSTASIS**

Chaired by: **Vania Prado** (London, Canada)

W31.1 – 14:20

Role of plasma membrane transporters in the control of monoamine

**Marc Caron** (Durham, USA)

W31.2 – 14:40

Keeping up with acetylcholine: how vesicular storage regulates transmission

**Vania Prado** (London, Canada)

W31.3 – 15:00

Glycine transporters: regulators of inhibitory and excitatory synaptic transmission

**Heihrich Betz** (Frankfurt, Germany)

W31.4 – 15:20

VGLUT3 : synergizing serotonergic and cholinergic transmission

**Salah El Mestikawy** (Paris, France)

**14:15-15:45 WORKSHOP W32**

Room Mazzini

**PROGRAMMING BY STRESSFUL AND ADVERSE EVENTS IN ADOLESCENCE OF ADULT STRESS REACTIVITY, COGNITION AND EMOTIONS**

Chaired by: **Seema Bhatnagar** (Philadelphia, USA)

W32.1 – 14:20

Lasting cognitive deficits after social instability stress in adolescence in male and female rats

**Cheryl McCormick** (St Catharines, Canada)

W32.2 – 14:40

Sex specific effects of adolescent isolation on stress-regulatory neural substrates in adulthood

**Seema Bhatnagar** (Philadelphia, USA)

W32.3 – 15:00

Differential impact of juvenile stress and corticosterone in juvenility and in adulthood in male and female rats

**Gal Richter-Levin** (Haifa, Israel)

W32.4 – 15:20

Gene – environment interaction during adolescence shapes adult disease vulnerability

**Mathias Schmidt** (Munich, Germany)

**14:15-15:45 WORKSHOP W33**

Room Cavour

**RODENT ULTRASONIC VOCALIZATIONS – INSIGHTS INTO THE SOCIAL BRAIN: BRAIN MECHANISMS, COMMUNICATIVE FUNCTION AND EXPRESSION OF AFFECT**

Chaired by: **Markus Wöhr** (Marburg, Germany)

W33.1 – 14:20

Ultrasonic vocalizations as an index of sociability in mice: the role of the  $\mu$ -opioid system

**Francesca D'Amato** (Rome, Italy)

W33.2 – 14:40

GABAA receptors and maternal separation distress: evidence from knock-in mice and pharmacological modulation

**Klaus Miczek** (Boston, USA)

W33.3 – 15:00

Adult rat 50 kHz ultrasonic vocalizations: call heterogeneity, individual differences, and dopaminergic mechanisms

**Paul Clarke** (Montreal, Canada)

W33.4 – 15:20

Brain mechanisms underlying ultrasonic communication in rodents

**Markus Wöhr** (Marburg, Germany)

**14:15-15:45 WORKSHOP W34**

Auditorium Verdi

**CANNABINOID RECEPTOR SIGNALING AND MODULATION OF MONOAMINERGIC CIRCUITS: IMPLICATIONS FOR BEHAVIOR**

Chaired by: **Elisabeth Van Bockstaele** (Philadelphia, USA)

W34.1 – 14:20

New perspectives in cannabinoid signaling

**Ken Mackie** (Bloomington, USA)

W34.2 – 14:40

Cannabinoid modulation of noradrenergic circuits

**Elisabeth Van Bockstaele** (Philadelphia, USA)

W34.3 – 15:00

Cannabinoids and dopamine: implications for psychiatric disorders

**Eleni Tzavara** (Paris, France)

W34.4 – 15:20

Endocannabinoid signaling: roles in neurodegeneration and schizophrenia

**Andrea Giuffrida** (San Antonio, USA)

**14:15-15:45 WORKSHOP W35**

Room Garibaldi

**HOW TO PROPERLY USE ANIMALS IN RESEARCH: CONSIDERATION OF LEVELS OF PAIN, GENETIC BACKGROUND, TRANSGENICS, AND BEHAVIOR**

SPONSORED BY AFSTAL, CLEVER SYS, HARLAN, LABORATORY ANIMALS Ltd. & TECNIPLAST

Chaired by: **Sharon Juliano** (Bethesda, USA) and **Silvina Diaz** (Paris, France)

W35.1 – 14:20

Do animals experience pain in the same way as humans?

**Paul Flecknell** (Newcastle, UK)

W35.2 – 14:40

Genetic background problems in the analysis of cognitive and neuronal changes in genetically modified mice

**Hans-Peter Lipp** (Zurich, Switzerland)

W35.3 – 15:00

The challenge of working with genetically modified rodents

**Fernando Benavides** (Smithville, USA)

W35.4 – 15:20

Behavioral measures and animal models in cognitive and behavioral neuroscience

**Amy Starosciak** (Bethesda, USA)

**15:50-17:20 WORKSHOP W36**

Room Vittorio Emanuele II

**IONIC TRANSPORTERS AND IONIC CHANNELS AS NEW MOLECULAR TARGETS IN STROKE INTERVENTION**

Chaired by: **Lucio Annunziato** (Naples, Italy)



W36.1 – 15:55

The Na<sup>+</sup>/H<sup>+</sup> exchanger: A target for therapeutic intervention in cerebral ischemia

**Dandan Sun** (Madison, USA)

W36.2 – 16:15

Na<sup>+</sup>/Ca<sup>2+</sup> exchanger gene products: Molecular targets for the identification of new therapeutic strategies in cerebral ischemia

**Lucio Annunziato** (Naples, Italy)

W36.3 – 16:35

Molecular participants in mitochondrial cell death channel formation during neuronal ischemia

**Elizabeth A. Jonas** (New Haven, USA)

W36.4 – 16:55

Role of TRPM7 in ischemic CNS injury

**John F. MacDonald** (Toronto, Ontario)

## 15:50-17:20 WORKSHOP W37

Room Mazzini

### ADVANCED FUNCTIONAL ANALYSIS OF CEREBELLAR CIRCUITS

Chaired by: **Egidio D'Angelo** (Pavia, Italy)

W37.1 – 15:55

Large scale realistic computational networks of the cerebellum

**Egidio D'Angelo** (Pavia, Italy)

W37.2 – 16:15

Role of mGluR1/TRPC3 cerebellar function: from dendritic spines to behavior

**Jana Hartmann** (Munich, Germany)

W37.3 – 16:35

Probing the function of cerebellar Golgi and Lugaro cells in vivo

**Ingrid Van Welie** (London, UK)

W37.4 – 16:55

Signal analysis of multi electrode chronic recordings in the cerebellar cortex and nuclei in freely moving animals

**Dana Cohen** (Ramat Gan, Israel)

## 15:50-17:20 WORKSHOP W38

Room Cavour

### SPATIOTEMPORAL PROFILES OF CORTICAL PROCESSING: A VIEW FROM OPTICAL IMAGING STUDIES IN AWAKE, BEHAVING NONHUMAN PRIMATES

Chaired by: **Anna Roe** (Nashville, USA)

W38.1 – 15:55

Simultaneous spatio-temporal imaging of blood-oxygenation and neurophysiological signals

**Amir Shmuel** (Montreal, Canada)

W38.2 – 16:15

Representing motion on V1 surface

**Frederic Chavane** (Marseille, France)

W38.3 – 16:35

Inter-areal cortical binding patterns in the macaque monkey

**Hamutal Slovín** (Ramat Gan, Israel)

W38.4 – 16:55

Spatiotemporal patterns of somatosensory activation

**Anna Roe** (Nashville, USA)

## 15:50-17:20 WORKSHOP W39

Auditorium Verdi

### NEUROBIOLOGY OF NEGLECTED AFRICAN DISEASES

Chaired by: **Krister Kristensson** (Stockholm, Sweden)

W39.1 – 15:55

African Trypanosomes and the blood-brain barrier: From neuropathogenesis to search for diagnostic biomarkers

**Willias Masocha** (Kuwait City, Kuwait)

W39.2 – 16:15

Brain injury in cerebral malaria: Integrating clinical, biochemical, and brain imaging studies to assess pathogenesis

**Richard Idro** (Kampala, Uganda)

W39.3 – 16:35

Sleep disturbances during infections relevant for sub-Saharan Africa

**Paul F. Seke Etet** (Verona, Italy)

W39.4 – 16:55

Khat: a widely used natural amphetamine in Africa

**Nilesh B. Patel** (Nairobi, Kenya)

## 15:50-17:20 WORKSHOP W40

Room Garibaldi

### NOVEL GENETIC AND PHARMACOLOGICAL TOOLS PROVIDE NEW INSIGHTS INTO ROLES OF MUSCARINIC ACETYLCHOLINE RECEPTOR SUBTYPES FOR TREATMENT OF CNS DISORDERS

Chaired by: **Carrie K. Jones** (Nashville, USA)

W40.1 – 15:55

Molecular mechanisms of allosterism at muscarinic receptors: Implications for CNS treatments

**Katie Leach** (Melbourne, Australia)

W40.2 – 16:15

Structural determinants and functional effects of novel M1 allosteric activators provide novel insights for treatment of CNS disorders

**Chris Langmead** (Welwyn Garden City, UK)

W40.3 – 16:35

Novel M1, M4, and M5 allosteric modulators for the treatment of psychosis and enhancement of cognition.

**Carrie K. Jones** (Nashville, USA)

W40.4 – 16:55

Muscarinic regulation of basal ganglia circuitry and its implication for dystonia

**Paola Bonsi** (Rome, Italy)

## 17:30-18:30 CLOSING PLENARY LECTURE PL9

Auditorium Verdi

Introduced by: **Fabio Benfenati** (President, IBRO 2011 International Programme Committee)

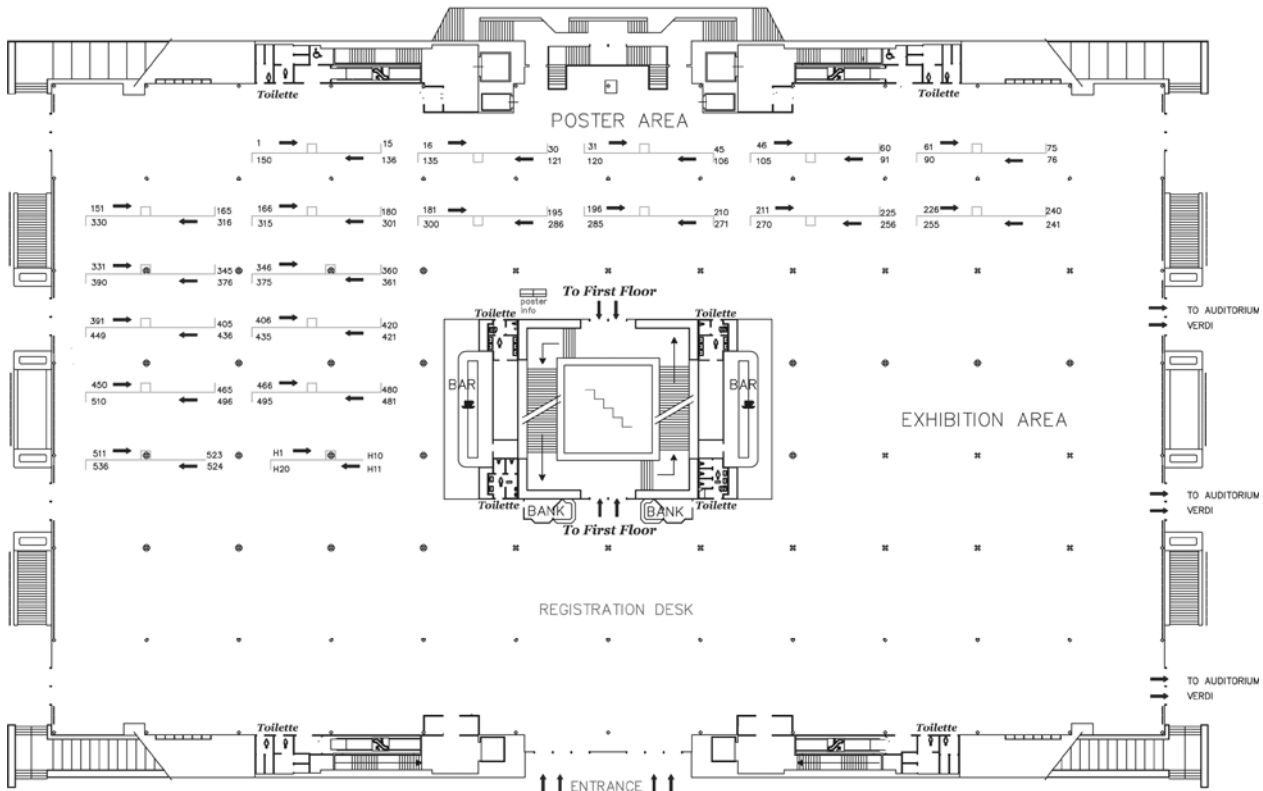
Optogenetics: development and application

**Karl Deisseroth** (Stanford, USA)



## POSTER PRESENTATION

### Pavilion A - Ground Floor - Poster Area



#### 01. Nervous system development & developmental disorders (Migration, differentiation & plasticity)

**D001** Transmembrane serine protease inhibitors HAI-1 and HAI-2 regulate neural progenitor cell division in culture  
R. KOIVUNIEMI, J. SCHRÖDER, H. KATAOKA & D. LINDHOLM

**D002** The atypical RhoGTPase Rnd3 regulates neural progenitor proliferation and organization in the developing cerebral cortex  
E. PACARY, R. AZZARELLI & F. GUILLEMOT

**D003** LEF1 and TCF7L2 are candidates for terminal selectors of thalamic neurons  
A. NAGALSKI, M. DABROWSKI, J. KUZNICKI & M.B. WISNIEWSKA

**D004** Chromatin remodeling BAF170 controls cerebral cortical size  
T.C. TUOC & A. STOYKOVA

**D005** Nuclear envelope potential: an origin of the first correlated neural activity  
M. YAMASHITA

**D006** Platelet activating factor induces a post-replication checkpoint response at the S/G2 transition of the cell cycle and blocks interkinetic nuclear migration in retinal progenitor cells  
L. FRAGEL-MADEIRA, T.S.G. MELETTI, R.M. MARIANTE, M. EINICKER-LAMAS, R.Q. MONTEIRO, R.R. BERNARDO, A.H.C.S. LOPES & R. LINDEN

**D007** Interneuron specification in the zebrafish spinal cord  
K.E. LEWIS, S. ENGLAND, S. DE JAGER, J. MORALES & G. CERDA MOYA

**D008** YAP regulates neuronal differentiation through Sonic hedgehog signaling pathway  
J.-Y. YU, Y.-T. LIN, M.-Y. LI, J.-Y. DING & T.-W. WANG

**D009** Expression analysis of genes involved in the Shh signaling pathway in the developing chicken cerebellum  
B. REICHENBACH & E.T. STOECKLI

**D010** Regulation of regional identity by the Pax6, Tbr2, and Tbr1 transcription factor cascade in developing mouse neocortex  
G.E. ELSÉN, R.D. HODGE, F. BEDOGNI, R.A.M. DAZA, N. SHIBA, S.L. REINER & R.F. HEVNER

- D011** Quantitative analysis of nerve growth factor in the amniotic fluid during chick embryonic development  
E. DIANATI & F. MASHAYEKHI
- D012** Comparative analyses of the embryonic neocortical germinal zones of rat, ferret, and monkey  
C.L. CUNNINGHAM, V. MARTINEZ CERDENO, J.L. ANTCZAK, J. CAMACHO, M. CZIEP, A.N. PRAKASH & S.C. NOCTOR
- D013** The early embryonic origin of the cortical hypoplasia in p73-deficient mice  
M. GONZALEZ-GOMEZ, O.C. MEDINA-BOLIVAR, E.R. HERNANDEZ- DIAZ, D. GALINDO-MIRELES & G. MEYER
- D014** Spinal progenitors in the neonatal rat: intrinsic properties and their regulation by neurotransmitters  
N. MARICHAL, G. GARCÍA, M. RADMILOVICH, O. TRUJILLO-CENÓZ & R.E. RUSSO
- D015** Sonic Hedgehog activity is required for CXCR4 signaling in cerebellar granule precursor neurons and medulloblastoma  
R. SENGUPTA, S. WARD, L. YANG, O. MEUCCI, R. WECHSLER-REYA & J.B. RUBIN
- D017** CDKL5, a novel gene involved in RTT, modulates neuronal proliferation and differentiation  
C. FUCHS, S. TRAZZI, E. VALLI, G. PERINI, R. BARTESAGHI & E. CIANI
- D018** Polarized preferences of Fgf8 morphogenetic signal activity along the mammalian neural tube  
I. CRESPO-ENRIQUEZ, L. LAHTI, J. PARTANEN, S. MARTINEZ & D. ECHEVARRIA
- D019** Expression of *Igsf21*, *Pde10a* and *Btbd3* in the Fgf8<sup>null/neo</sup> mutant mouse forebrain  
A. BOTELLA-LÓPEZ & S. MARTÍNEZ
- D020** The identification of the factors promoting differentiation and maturation of cerebellar Purkinje cells  
M. SUGIE, Y. OKADA, O. TAO, M. KAWAMURA & H. OKANO
- D021** Role of the Nkx transcription factors in the specification of the basal midbrain  
J.A. MORENO-BRAVO, A. PEREZ-BALAGUER, J.E. MARTINEZ-LOPEZ, S. MARTINEZ & E. PUELLES
- D022** Expression domains of FLRTs family in the mouse mid-hindbrain region during neural tube development  
J. LAHOZ, I. CRESPO-ENRIQUEZ, T. ESCAMEZ, S. MARTINEZ & D. ECHEVARRIA
- D023** The T-box brain transcription factor Tbr2 controls glutamatergic fate determinants in the postnatal and adult subventricular zone  
R.J. KAHOUD, R.D. HODGE, B.R. NELSON, G.E. ELSÉN & R.F. HEVNER
- D024** The early development of human neocortical GABAergic interneurons  
N.A.A. AL-JABERI, N. BAYATTI, S.M. LINDSAY & G.J. CLOWRY
- D025** Cortical radial glia mediates a homocellular network of coupling in the early postnatal subventricular zone  
A.L.R. XAVIER, A.S. FREITAS, C.M. FURTADO, C.H. PEREIRA, M.M. FRÓES & J.R.L. DE MENEZES
- D026** Oligodendrocytes precursors originate in prosomere 1: identification of chick Sulf1 as a new oligodendrocyte lineage related gene  
R. GARCIA, C. SOULA & S. MARTINEZ
- D027** Prenatal disruption of the serotonin synthesis and ontogeny of serotonergic nuclei: a matter of time  
A.D. CHAVEZ ARRIETA, M.G. FLORES CRUZ, R. VALLE BAUTISTA & A. ESCOBAR
- D028** Hindbrain segmentation in shark embryos: a survey of an ancestral organization  
I. RODRIGUEZ-MOLDES, I. CARRERA, S. POSE-MÉNDEZ, I. QUINTANA-URZAINQUI, E. CANDAL, R. ANADÓN, S. MAZAN & S. FERREIRO-GALVE
- D029** Wnt signal regulates the establishment of temporospatial coordinates of positional information in thalamic and pretectal epithelium  
M. NAVARRO-GARBERI, A. MARTINEZ-FERRE & S. MARTINEZ
- D030** Shh expression in the diencephalic zona limitans intrathalamica is regulated by Wnt signaling  
A. MARTINEZ-FERRE, M. NAVARRO-GARBERI & S. MARTINEZ
- D031** Generation and characterization of human ES cells carrying Sox1-reporter gene for neural differentiation  
K. YOSHIDA, S.-I. OTA, C. HARA, Y. OKADA & H. OKANO
- D032** Modulation of cell-cycle dynamics is required to regulate the number of cerebellar GABAergic interneurons and their rhythm of maturation  
E. PARMIGIANI, K. LETO, A. BARTOLINI, A. DI GREGORIO, D. IMPERIALE, A. DE LUCA, R.K. FILIPKOWSKI, L. KACZMAREK & F. ROSSI
- D033** Neurogenesis and nerves in the choroid plexus  
W. PRASONGCHEAN, B. VERNAY & P. FERRETTI
- D034** Topographic correlation of mature and developing mouse raphe nuclei with rhombomeric domains  
A. ALONSO, M. MARTINEZ-DE-LA-TORRE, P. MERCHÁN, L. SÁNCHEZ-ARRONES, J.E. SANDOVAL, R. ARTUCH & L. PUELLES
- D035** Expression of vascular endothelial growth factor receptor-3 in the developing rat forebrain  
M.C. WARD & A.M. CUNNINGHAM
- D036** Bioavailability of BrdU in the rat serum after intraperitoneal administration  
A. MATIAŠOVÁ, J. ŠEVČ, V. KÚTNA, J. MIKEŠ, R. JENDŽELOVSKÝ, P. FEDOROČKO & Z. DAXNEROVÁ



## POSTER PRESENTATION

- D037** The lining of central canal serves as the source of gliogenesis even during the first weeks of postnatal development of rat  
J. ŠEVC, V. KÚTNA, A. MATIAŠOVÁ, Š. GEDROVÁ & Z. DAXNEROVÁ
- D038** Mash1 protein stability is regulated by the E3 ubiquitin ligase Huwe1  
N. URBAN, C. HUNT & F. GUILLEMOT
- D039** Spatio-temporal analysis of the expression pattern of Iroquois a gene cluster in the developing CNS of chick embryos  
R. CORRAL-SAN MIGUEL, B. LORENTE-CÁNOVAS, L. TOMÁS-ROCA, F. MARÍN & P. AROCA
- D040** A targeted serotonergic neuron reporter stem cell line to model in vitro serotonergic neuron development and function  
G. PACINI, A. MARINO, B. PELOSI, S. MIGLIARINI, A. FERRARI & M. PASQUALETTI
- D041** The orphan nuclear receptor Nurr1 promotes the dopaminergic differentiation by regulating the expression of the transcription factor Pitx3  
R. DE GREGORIO, F. VOLPICELLI, C. PETRONE, C. PERRONE-CAPANO, U. DI PORZIO & G. BELLENCHI
- D042** Characterization of the endocannabinoid system in ST14A neural precursors  
V. POMATTO, M. TEDESCHI, S. RAPELLI, E. COTTONE, P. BOVOLIN & M.F. FRANZONI
- D043** HDAC 11 differentially expresses during prenatal and postnatal murine brain development  
A. GOUDARZI & F. AJAMIAN
- D044** Dynamic long- and short-range processes mediate Dll1-Notch signaling between diverse progenitor types in the embryonic neocortex  
B.R. NELSON, R.D. HODGE, F. BEDOGNI & R.F. HEVNER
- D045** The T-box transcription factor Tbr2 is required for development of the hippocampus and for maintenance of neurogenesis in the adult dentate gyrus  
R.D. HODGE, G.E. ELSÉN, B.R. NELSON, R.J. KAHOU, K.E. MUSSAR, R. YANG & R.F. HEVNER
- D046** Comparison of BrdU and Ki-67 labeling in the rat rostral migratory stream  
E. RACEKOVA, J. BLASKO, K. LIEVAJOVA, M. MARTONCIKOVA & I. VANICKY
- D047** Blood vessels in the rostral migratory stream of adult rats  
M. MARTONCIKOVA, J. BLASKO, K. LIEVAJOVA & E. RACEKOVA
- D048** Adult born neurons convey higher levels of associativity to information processing in the dentate gyrus of the hippocampus  
M.B. PARDI, L.A. MONGIAT, A.F. SCHINDER & A. MARIN-BURGIN
- D049** Induction of neurogenesis by IFRD1/PC4 in adult hippocampus  
L. MICHELI, L. LEONARDI, S. FARIOLI-VECCHIOLI, I. CINÀ, M. CECCARELLI & F. TIRONE
- D050** Expression and functional role of COUP-TFI in olfactory bulb GABAergic interneurons  
S. BOVETTI, D. GARZOTTO, M. ARMENTANO, S. BONZANO, C. GIACHINO, A. FASOLO, P. PERETTO, M. STUDER & S. DE MARCHIS
- 
- 02.** Axonal guidance, synaptic formation & trophic factors (Synaptic formation & trophic factors)
- 
- D051** Selective localization of collybistin at a subset of inhibitory synapses in brain circuits  
E. FROLA, A. PATRIZI, L. VILTONO, K. HARVEY, R.J. HARVEY & M. SASSOÈ-POGNETTO
- D052** Developmental regulation of neurexin differs at glutamatergic and GABAergic synapses  
G. PREGNO, E. FROLA, A. PATRIZI, M. ARESE & M. SASSOÈ-POGNETTO
- D053** Bidirectional modulation of neuronal maturation by Kainate receptors  
J.M. MARQUES, R.J. RODRIGUES, J.L. ROZAS, S. SELAK & J. LERMA
- D054** Silencing GABAergic transmission affects the maturation and spine development of newborn granule cells in the adult mouse olfactory bulb  
M. PALLOTTO, A. NISSANT, J.-M. FRITSCHY, U. RUDOLPH, M. SASSOÈ-POGNETTO, P. PANZANELLI & P.-M. LLEDO
- D055** Astrocytes assist synaptogenesis in the adult rat cochlear nucleus after total sensory deafferentation  
R.B. ILLING, M. FREDRICH & A.C. ZEBER
- D056** Subunit specific changes in diffusion of GABAARs in response to GABABR signalling  
K. GERROW & A. TRILLER
- D057** Synapsin I controls synapse formation in a phosphorylation- and activity-dependent manner  
L.E. PERLINI, F. BOTTI, E.F. FORNASIERO, M. GIANNANDREA, D. BONANOMI, M. AMENDOLA, L. NALDINI, F. BENFENATI & F. VALTORTA
- D058** Modification of synapsin I by O-GlcNAc inhibits localization of synapsin I to synapses  
Y.V. SKOROBOGATKO, A. LANDICHO, G. GALLO & K. VOSELLER

- D059** Synaptic trafficking of Frizzled-5, a receptor for Wnts, mediates activity-dependent synapse formation  
M. SAHORES, S. SIBILLA, A. GIBB & P.C. SALINAS
- D060** Alterations in synaptogenesis and Purkinje cell maturation in the cerebellum of Cstb-deficient mouse, a model for progressive myoclonus epilepsy, EPM1  
S. TEGELBERG, T. JOENSUU, P. HAKALA, J. VESTERINEN, O. KOPRA & A.-E. LEHESJOKI
- D061** PICK1 mediates synaptic targeting of AMPA receptors in neurexin-induced postsynaptic sites  
J. XU & J. XIA
- D062** Development of the calyx-type synapses in the embryonic chick ciliary ganglion - a rainbow study  
R. EGAWA, S. HOSOSHIMA, T. ISHIZUKA, H. NAKAMURA & H. YAWO
- D063** Peripheral sensory nerve transection-induced remodeling of afferent synapses in the somatosensory thalamus of mice  
Y. TAKEUCHI, Y. NAGUMO & M. MIYATA
- D064** Dystroglycan mediates GABAergic synapse formation in cerebellar Purkinje cells and recruits neuroligin 2 and GABA<sub>A</sub> receptors to postsynaptic specializations  
F. BRIATORE, G. PREGNO, E. FROLA, M.E. DE STEFANO, S. DI ANGELANTONIO, A. PATRIZI & M. SASSOE-POGNETTO
- D065** Role of synapsins in the regulation of the effects of neurotrophins on neuronal development  
F. BRUZZONE, S. MAININI, F. BENFENATI & F. ONOFRI
- D066** Developmental alterations the neuronal networks in layer 4 of rat barrel cortex  
G. RADNIKOW, J.R. LÜBKE & D. FELDMEYER
- D067** Regulation of neurexin processing at synapses by Alzheimer's disease-associated presenilins  
E. SERVIÁN-MORILLA, C.A. SAURA, A. MARTINEZ-MIR & F.G. SCHOLL
- D068** Role of synapsin II mutations associated with autism or epilepsy in neuronal development and synaptic vesicle cycling  
A. MARTE, M. FADDA, A. FASSIO, A. CORRADI, P. COSSETTE & F. BENFENATI
- D069** Rab8 regulates Fasciclin II recycling to modulate synaptic growth  
M. NAHM & S. LEE
- D070** Synaptic vesicle clustering is induced by cooperation of N-cadherin and Neuroligin-1  
A. STAN, K. PIELARSKI, T. BRIGADSKI, N. WITTENMAYER, V. LESSMANN, T. DRESBACH & K. GOTTMANN
- D071** Engrailed expression affects synaptic connectivity of *Drosophila* antennal sensory neurons  
J.M. BLAGBURN & B. MARIE
- D072** Analysis of the temporal expression and neurotrophic effects of GDNF in the developing rat nigrostriatal system  
A.M. GAVIN, S. WYATT, G.W. O'KEEFFE & A.M. SULLIVAN
- D073** Dopamine D2 receptor-induced upregulation of GDNF is mediated by the transcription factor Zif268  
S. AHMADIANTEHRANI & D. RON
- D074** Focal delivery of BDNF to cultured neurons with optical tweezers  
E. D'ESTE, G. BAJ, G. PINATO, E. TONGIORGI & D. COJOC
- D075** Antidepressant-induced TrkB receptor proteome in the adult mouse brain  
L.K. VESA, T.P. RANTAMÄKI & E.H. CASTRÉN
- D076** BDNF induces calcium binding proteins expression in spinal neurons  
E. ALBANESI, F. BENFENATI & R. ANELLI
- D077** The role of target-derived GDNF in axonal outgrowth of transplanted ventral mesencephalic dopaminergic neurons in a mouse model of Parkinson's disease  
S. GREALISH, J.-O. ANDRESSOO, M. SAARMA & A. BJÖRKLUND
- D078** The mechanisms underlying the role of adenosine A<sub>2A</sub> and BDNF TrkB receptors upon neuronal maturation  
F.F. RIBEIRO, N. ASSAIFE-LOPES, R. SILVA, D. BRITES, J.A. RIBEIRO & A.M. SEBASTIÃO
- D079** Neurotrophin-induced polarized expression of p75<sup>NTR</sup> specifies axons during development and adult neurogenesis  
E. ZUCCARO, M. BERGAMI, B. VIGNOLI, G. BONY, S. SANTI, L. CANCEDDA & M. CANOSSA
- D080** Interleukin-1beta and Neurotrophin-3 stimulate synergistically distinct aspects of neurite outgrowth  
S. HENDRIX, F. BOATO, K. ROSENBERGER, D. LUEDECKE, E.N. PETERS & R. NITSCH
- D081** Effects of BDNF and FGF-2 on optic nerve regeneration after axotomy  
R.E. BLANCO, G.S. VEGA & C. DEL CUETO
- 
- 03. Glia (Microglia, cancer & miscellanea)**
- 
- D082** A Trojan horse mechanism for neurotranslocation of nanosized particles  
J. CADUSSEAU, Z. KHAN, O. TILLEMENT, F. LUX & R.K. GHERARDI
- D083** Histamine modulates microglial inflammatory response  
R. FERREIRA, T. SANTOS, F. AGASSE, J.O. MALVA & L. BERNARDINO
- D084** Microglia profiling after peripheral *versus* central inflammatory challenge  
J.M. GEMECHU, G. GRASSI-ZUCCONI, M. BENTIVOGLIO & A. ANDRIOLI



## POSTER PRESENTATION

- D085** **Development of the microglial phenotype *in vitro***  
K. GULYA & M. SZABO
- D086** **Using impedance spectroscopy for monitoring the effects of minocycline on the proliferative activity of microglial cells**  
D. JANSSEN, K. VERBOVEN, S. DUCHATEAU, J. BROEDERS, B. BRÔNE & J.-M. RIGO
- D087** **K<sub>v</sub>1.3 channel regulation of microglia-associated neurotoxicity**  
J. LIU, C. XU, L. CHEN & H. XIONG
- D088** **Proteomically identified microglial-secreted molecules are neuroprotective in *in vitro* models of neurodegeneration**  
I. MENGONI, E. POLAZZI, E. PEÑA ALTAMIRA, A. CONTESTABILE & B. MONTI
- D089** **Functional properties of spinal cord embryonic microglia *in situ***  
C. RIGATO, N. SWINNEN, R. BUCKINX, J.M. RIGO, H. LE-CORRONC & P. LEGENDRE
- D090** **Microglia invasion and migration in the embryonic neocortex**  
N. SWINNEN, S. SMOLDERS, B. BRÔNE, P. LEGENDRE & J.-M. RIGO
- D091** **Erythropoietin action upon activation of microglial cells**  
S.D. WENKER, M.E. CHAMORRO, D.C. VITTORI & A.B. NESSE
- D092** **NeuroAIDS review: pre- and post-HAART lessons on the role of microglia and metabolic dysregulation in chronic neurodegenerative disease**  
G.M. WANDERI & K.C. SIGEI
- D093** **Monitoring microglia morphology, behavior and phenotype in ischemic mice by *in vivo* two-photon microscopy**  
S. FUMAGALLI, F. ORTOLANO & M.G. DE SIMONI
- D094** **Activated microglia inhibit axonal regeneration by RGMa**  
M. KITAYAMA, M. UENO, T. ITAKURA & T. YAMASHITA
- D095** **Minocycline *in vitro* reduces microglial activation in a *CSTB*-deficient mouse, a model for progressive myoclonus epilepsy, EPM1**  
O. OKUNEVA, I. KÖRBER, T. JOENSUU, A.-E. LEHESJOKI & O. KOPRA
- D096** **Evaluation of cytotoxic effects after prolonged exposure of human astrocytoma cells to fructose-boronophenylalaline, a boron delivery drug for boron neutron capture therapy**  
U. DE SIMONE, T. COCCINI, E. RODA, G.J. BAKEINE, C. FERRARI & L. MANZO
- D097** **Antitumor activity of zonisamide on C6 rat glioma cells**  
Z. BOR, N. BEKTAS, R. ARSLAN & Z. INCESU
- D098** **Type-3 Metabotropic glutamate receptor blockade enables the cytotoxic activity of temozolomide on human glioma stem cells**  
C. NICCOLINI, C. CICERONI, M. BONELLI, M. LAURENZA, E. MASTRANTONI, P. SPINSANTI, L. RICCI VITIANI, R. DE MARIA, F. STOCCHI, F. NICOLETTI, G. BATTAGLIA & D. MELCHIORRI
- D099** **Expression and localization of Kir channels in human Glioblastoma Multiforme**  
M. PAPANIKOLAOU, G. PILKINGTON & A.M. BUTT
- D100** **Proteomic analysis of signaling processes in glioblastoma cells after sub-lethal photodynamic treatment**  
A. UZDENSKY, A. JUSENIENE & J. MOAN
- D101** **Modulation of the inflammatory response in glial cells by histone deacetylase inhibitors**  
M. BORASO, A. GALMOZZI, V. GALBIATI, E. CORSINI, C.L. GALLI, M. MARINOVICH, M. CRESTANI & B. VIVIANI
- D102** **Glia- and neuron-specific functions of TrkB signaling during retinal degeneration and regeneration**  
T. HARADA, X. GUO, K. NAMEKATA, L.F. PARADA & C. HARADA
- D103** **Glutamatergic neurotransmission is modulated by glia and ATP in nucleus tractus solitarius neurons sending projections to ventral medulla of rats**  
D. ACCORSI-MENDONÇA, L.G. BONAGAMBA & B.H. MACHADO
- D104** **Effect of adenosine A<sub>1</sub> and A<sub>2a</sub> antagonists on 3,4 methylenedioxyamphetamine (MDMA)-induced neuroinflammation and dopamine neuron toxicity in mouse brain**  
A. KHAIRNAR, L. FRAU, S. FENU, A. PLUMITALLO & M. MORELLI
- D105** **Cellular and molecular remodeling in the adult rat spinal cord injury after chondroitinase ABC treatment**  
U. MILBRETA, Y. VON BOXBERG, P. MAILLY, F. NOTHIAS & S. SOARES
- D106** **MALDI TOF MS profiling of central nervous system glia**  
Å. FEX SVENNINGSEN, J. HANREIDER, G. WICHER, J. BERGQUIST & M. ANDERSSON
- D107** **Correlative microscopy of Bergmann glial cells of vertebrate cerebellum**  
O.J. CASTEJÓN
- D108** **Rac1 GTPase participates in müller glial cells proliferation after excitotoxic retinal injury**  
L.C. SILVA, M.F. SANTOS, P.S. AKAMINE & D.E. HAMASSAKI
- D109** **Regulation of the gabaergic transporter-3 (GAT-3) in the avian retina**  
C.S. SCHITINE, I. ORNELAS, K.C. CALAZA, P.F. GARDINO, R.A.M. REIS & F.G. MELLO

- D110** **Blocking N-cadherin-based cell-cell adhesion leads to apoptosis of ependymal cells and denudation of brain ventricular walls**  
L.F. BATIZ, C. OLIVER, C.A. GONZÁLEZ & E.M. RODRÍGUEZ
- D111** **Glucosensing in hypothalamic tanycytes: signaling through connexin 43 hemichannels**  
M.A. GARCIA, J.A. ORELLANA, P.J. SAEZ, C. CORTES-CAMPOS, R.J. ELIZONDO, K.F. SHOJI, S. CONTRERAS-DUARTE, V. FIGUEROA, J.X. JIANG, F. NUALART & J.C. SAEZ
- D112** **SVCT2 and GLUT1 polarization and function in mouse and human choroid plexus cells**  
F. NUALART, V. ULLOA, K. SALAZAR, K. REINICKE, F. PÉREZ, N. JARA, K. OYARCE & M.A. GARCÍA
- D113** **Immunohistochemical alterations of dystroglycan complex related to blood-brain barrier permeability in different vessels and following lesions**  
M. KÁLMÁN, E. FARAGÓ, S. SADEGHJAN, J. MAHALEK & K. PÓCSAI
- D114** **Ultrastructural features of *Camelus dromedarius* pituicytes and neurosecretion**  
F.Z. DJAZOULI ALIM, M. RODRÍGUEZ, C. ANDRADE, N. LEBAILL & N. MAHY
- D115** **Ultrastructural study on the process of osteopontin accumulation in neuronal cell debris in a rat model of stroke**  
H.L. KIM, Y.-J. SHIN, J.-M. PARK & M.-Y. LEE
- D116** **Visualization of GABA release in the developing cerebellar cortex**  
S. YOSHIDA
- 
- 04. Stem cells: neural injury & repair (Neurogenesis)**
- D117** **Ependymal cells display reactive astroglial phenotype with disruption of planar cell polarity and altered motile cilia function after stroke**  
C.C. YOUNG, J.M. VAN DER HARG, K.J. BROOKS, A.M. BUCHAN & F.G. SZELE
- D118** **EPHB3 limits the expansion of neural stem/progenitor cells in the SVZ by regulating P53 during homeostasis and following brain injury**  
M.H. THEUS, J. RICARD, S.G. KERNIE & D.J. LIEBL
- D119** **Methamphetamine impairs neurogenesis in dentate gyrus cell cultures: protective role of neuropeptide Y**  
S. BAPTISTA, A.R. BENTO, J. GONÇALVES, L. BERNARDINO, C.F. RIBEIRO, J.O. MALVA, F. AGASSE & A.P. SILVA
- D120** **The endocannabinoid system promotes proliferation and neuronal differentiation in murine subventricular zone cell cultures**  
S. XAPELLI, L. SARDÀ, L. BERNARDINO, T. SANTOS, C.S. SCHITINE, L. CORTES, R.A.D.M. REIS, F. AGASSE & J. MALVA
- D121** **The inhibition of infant rat hippocampal progenitor cell proliferation with endogenous protein factor**  
E. BAKURADZE, I. MODEBADZE, G. MOSIDZE & D. DZIDZIGURI
- D122** **Tracing neuronal progeny of adult rat ependymal cells using electroporation**  
K. DEVARAJU, F.B. HEIDER, C.E. CLEMENTSON, J. FRISÉN, Z. KOKAIA & O. LINDVALL
- D123** **Treatment with 3,6'-thiothalidomide, a new selective TNF- $\alpha$  inhibitor, suppresses the effect of beta-amyloid on neurogenic hippocampal niche**  
I. RUSSO, L. CARACCILO, D. TWEEDIE, N. GREIG, S. BARLATI & F. BOSETTI
- D124** **A novel migratory stream in the postnatal hippocampus**  
V. CUCCIOLI & S. MARTINEZ PEREZ
- D125** **Galectin-1 is expressed in early-type neural progenitor cells and down-regulates neurogenesis in the adult hippocampus**  
Y. IMAIZUMI, M. SAKAGUCHI, T. MORISHITA, M. ITO, F. POIRIER, K. SAWAMOTO & H. OKANO
- D126** **Modulation of postnatal neurogenesis following perinatal asphyxia**  
P. MORALES R, A. JARA-CAVIERES, P. ESPINA-MARCHANT, N. PÉREZ, V. MUÑOZ, G. CUNICH, D. BUSTAMANTE, P. GEBICKE-HAERTER & M. HERRERA-MARSCHITZ
- D127** **Histamine as a promising proneurogenic factor on subventricular zone stem cells: a new approach for brain repair**  
L. BERNARDINO, M.F. EIRIZ, T. SANTOS, S. XAPELLI, S. GRADE, A. ROSA, L. CORTES, J. BRAGANÇA, F. AGASSE, L. FERREIRA & J. MALVA
- D128** **Exposure to extremely low-frequency (50 Hz) electromagnetic fields enhances adult hippocampal neurogenesis in C57BL/6 mice**  
L. LEONE, B. CUCCURAZZU, M.V. PODDA, R. PIACENTINI, E. RICCARDI, C. RIPOLI, G.B. AZZENA & C. GRASSI
- D129** **IL-1b negatively regulates expression of the orphan nuclear receptor TLX in adult rat hippocampal neural precursor cells**  
S. RYAN & Y.M. NOLAN
- D130** **Human cytomegalovirus infection inhibits the differentiation of human hippocampus neural precursor cells into astrocytes**  
B. WANG
- D131** **Local injection of ethidium bromide into the hippocampus can be modeled to study of the gray matter demyelination and acquisition of spatial memory in the rat**  
M. GOUDARZVAND, M. JAVAN, J. MIRNAJAFI-ZADEH & T. TIRAIHI



## POSTER PRESENTATION

- D132** FGF-2 potentiates myelin repair in mouse optic chiasm and nerves by recruiting oligodendrocytes progenitor cells  
S. DEHGHAN, M. JAVAN, F. POURABDOLHOSSEIN, J. MIRNAJAFIZADEH & H. BAHARVAND
- D133** Agonists differently regulate endocytic trafficking of the "dual" receptor GPR17 in differentiating oligodendroglial cells  
A. FRATANGELI, E. PARMIGIANI, S. MACCHI, E. GIARDINO, D. LECCA, M. FUMAGALLI, M.P. ABBRACCHIO & P. ROSA
- D134** Postnatal transplantation of interneuronal precursor cells modifies the anxiety-like behavior in adult mice  
M.F. VALENTE, M.E. CALCAGNOTTO, S. ROMARIZ, L. RUIZ, R. FRUSSA-FILHO, L.E. MELLO & B.M. LONGO
- D135** Positive autoregulation of serotonergic neurons by 5-HT<sub>2B</sub> receptors revealed by serotonin selective antidepressants  
S.L. DIAZ, S. DOLY, N. NARBOUX-NÊME, S. FERNANDEZ, P. MAZOT & L. MAROTEAUX
- D136** Flk1+/Nrp1+ cells: in vivo differentiation potential along neural and endothelial lineages  
V. LABAT-GEST, A. NOGHERO, A. BUFFO, A. GUALANDRIS & F. ROSSI
- D137** Influence of pigment epithelium derived factor on neurogenesis, apoptosis and inflammatory processes after traumatic brain injury  
A.-L. PINA, P. CASALIS, M.Y. TERZI, V. LANG, U. THOMALE & P. VAJKOCZY
- D138** The effects of male pheromones on adult neurogenesis in the accessory olfactory bulb of female mice  
J.-H. WU & T.-W. WANG
- D139** Effect of HCMV infection on NGF expression in human glioma U251 cells  
Y.-Y. WANG
- D140** Combining neural progenitors and injectable alginate biomaterial releasing growth factors (GFs) for spinal cord repair  
D. CIZKOVA, L. SLOVINSKA, I. NOVOTNA, M. CIZEK, V. CIGANKOVA & S. COHEN
- D141** Hippocampal-derived neural progenitor cells establish synaptic junctions after grafting into the adult ischemic brain  
Q. TSUPYKOV, T. PIVNEVA, A. PODDUBNA, V. KYRYK, O. KUCHUK & G. SKIBO
- D142** Induction of a functional antiviral response and selection for attenuated coxsackievirus variants in persistently infected neural progenitor and stem cells  
R. FEUER, R.E. RHOADES, S. DELINE, J.B. RUEDAS, J. PERRAULT & G. TSUENG
- D143** The Cyclic-AMP Response Element Binding protein (CREB) and its role in neural progenitor cells and brain cancer  
N. PAPALEXIS & T. MANTAMADIOTIS
- D144** SEZ-derived neural progenitors contribute to remyelination of the corpus callosum in the cuprizone model of CNS demyelination  
T.D. MERSON, S.W. NG, P. SOO & T.J. KILPATRICK
- D145** Functional long-distance regeneration of sensory axons in the spinal cord  
L.E. WONG, M.E. GIBSON & E. FRANK
- D146** A study of axonal regeneration on culture of mouse neurons by laser dissection and optical tweezers  
F. DIFATO, H. TSUSHIMA, M. PESCE, F. BENFENATI, A. BLAU & E. CHIEREGATTI
- D147** The characterization of rat brain cell nuclear membrane GlcNAc-specific lectin  
R. AKHALKATSI & T. MACHARADZE
- D148** Bis(12)-hupyridone, a novel multifunctional dimer, promotes neuronal differentiation more potently than its monomeric natural analogue huperzine A possibly through alpha7 nAChR  
W. CUI, G.-Z. CUI, W. LI, Z. ZHANG, S. HU, R. HAN, S. MAK, H. ZHANG, P.R. CARLIER, C.-L. CHOI, S.M.-Y. LEE & Y. HAN
- D149** Role of PARP inhibitor, 3-aminobenzamide in the mechanism of programmed neuronal necrosis in Neuro 2A cells under tert-BOOH induced oxidative stress  
V.P. KRISHNAN MUTHAIAH, S.S. RAJAN, T. PALANIAPPAN, K. CHANDRASEKHAR & S. VENKATACHALAM
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- 07. Synaptic transmission & signal transduction (Pharmacology & disease)**
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- D150** CB1 receptor independent inhibitory effects of cannabinoid agonists on the release of [<sup>3</sup>H]GABA from hippocampal synaptosomes in the CB1 knockout mice  
R.D. ANDÓ & B. SPERLÁGH
- D151** Blockade of RasGRF1-NR2B coupling attenuates dyskinesia and prevents the accompanying rise of nigral GABA levels in mice  
S. BIDO, S. FASANO, R. BRAMBILLA & M. MORARI
- D152** Δ<sup>9</sup>-tetrahydrocannabinol (Δ<sup>9</sup>-THC) exposure during adolescence and mesolimbic DA response to Δ<sup>9</sup>-THC and heroin in adult Lewis and Fischer344 rats  
C. CADONI, T. MUTO & G. DI CHIARA
- D153** Nitric oxide-active compounds modulate glutamatergic and GABAergic transmission in globus pallidus of rat  
F. CARLETTI, V. RIZZO, S. FRISCHIA, G. FERRARO & P. SARDO



- D154** 5-HT<sub>7</sub> receptor activation reverses mGluR-Ltd. in the hippocampus of wild-type and Fmr1 knockout mice  
L. COSTA, M. SPATUZZA, C. TROVATO, C.M. BONACCORSO, S.A. MUSUMECI, M.V. CATANIA & L. CIRANNA
- D155** To burst or not to burst during electro-cortical suppression: a question of stimulus strength, anesthetic depth and bursting history  
A.O. CONSTANTINESCU, A. ILIE, D. CIOCAN, B. DAVID, A.-M. ZAGREAN, L. ZAGREAN & M. MOLDOVAN
- D156** Adenosine is released *per se* in physiological conditions. During ischemia it is primarily a product of extracellular ATP, *in vivo*  
F. CORTI, A. MELANI, H. STEPHAN, C.E. MULLER, M.G. VANNUCCHI & F. PEDATA
- D157** The effects of nicotine and non-nicotinic components of cigarette smoke on the expression and function of DAT  
K.M. DANIELSON, P. TRUMAN & B.M. KIVELL
- D158** Abnormal glutamate release in a mouse model of amyotrophic lateral sclerosis  
F. GIRIBALDI, M. MILANESE, T. BONIFACINO, F. ONOFRI, L. MUSAZZI, D. TARDITO, M. MESSA, C. USAI, G. RACAGNI, F. BENFENATI, M. POPOLI & G. BONANNO
- D159** The influence of repetitive pulsed magnetic stimulation on neuronal cultures  
S. GREHL, H.M. VIOLA, R.M. SHERRARD, S.A. DUNLOP, L.C. HOOL & J. RODGER
- D160** Cocaine sensitization does not alter substance P effects on locomotion or excitatory synaptic transmission in the rat  
S.B. KOMBIAN, K.V.V. ANANTHALAKSHMI, J.A. ZIDICHOUSKI & T.M. SALEH
- D161** The mGlu5 receptor positive allosteric modulator ADX-47273 has differential effects on early and late LTP in rat hippocampal slices  
K.S. KROKER, G. RAST, C. DORNER-CIOSSEK & H. ROSENBRUCK
- D162** Synaptic transmission imbalance induced by a nonsense mutation of Synapsin I gene involved in epilepsy and autism  
G. LIGNANI, A. RAIMONDI, E. FERREA, A. ROCCHI, T. TKATCH, F. VALTORTA, P. COSSETTE, P. BALDELLI & F. BENFENATI
- D163** Loss of tonic inhibition underlies cortico-hippocampal network hyperexcitability in the Synapsin II KO mice  
L. MEDRIHAN, E. FERREA, A. MACCIONE, L. BERDONDINI, P. BALDELLI & F. BENFENATI
- D164** Glutamate and acetylcholine alterations during seizure activity induced by 4-aminopyridine administration monitored by an electrochemiluminescence method  
A. MORALES-VILLAGRAN & J.M. ORTEGA-IBARRA
- D165** Electrophysiological characterization of Eps8 null neurons shows alterations in neurotransmission  
R. MORINI, E. MENNA, S. ZAMBETTI & M. MATTEOLI
- D166** Chronic morphine augments Dentate Gyrus population spikes that can be restored after withdrawal in freely moving rats  
M. NOORBAKHSNIA, F. MOTAMEDI & S.Z. NOURBAKHSNIA
- D167** Drugs of abuse differentially affect dopamine transmission in the nucleus accumbens shell and core of Hatano high- and low-avoidance rat strains  
G. PIRAS, R. FRAU, V. VALENTINI & G. DI CHIARA
- D168** Tropisetron upregulates cannabinoid CB<sub>1</sub> receptors in cerebellar granule cells: possible involvement of calcineurin  
R. RAHIMIAN, G. FAKHFOURI, S. EJTEMAEI MEHR, M.R. KHORRAMIZADEH, K. MOUSAVIZADEH & A.R. DEHPUR
- D169** A galanin (2-11) analogue specific for Galanin receptor type 2 (GalR2)  
J. RUNESSON, K. KARLSSON & Ü. LANGE
- D170** Characterization of a new muscarinic toxin from the venom of the Brazilian coral snake *Micrurus lemniscatus* in rat hippocampus  
D.C. SILVA, I.D.F. BATISTA, D.C. PIMENTA, I. LEBRUN, F.M. ABDALLA & M.R.L. SANDOVAL
- D171** The adenine receptor, a new target within the CNS: molecular-pharmacological analysis and pathophysiological relevance  
F. SIEGERT, M. BLOßFELD, A. OBST, B. BUMNARAN & K. NIEBER
- D172** Reaction time from sensory stimulation to volitional movement decreases with intensity and spatial coverage of stimulus  
A.H. VETTE, B. LAKHANI, A. MANSFIELD & W.E. MCILROY
- D173** Levetiracetam inhibits synaptic transmission through inhibition of presynaptic voltage-dependent Ca<sup>2+</sup> channels in superior cervical ganglion neurones  
C. VOGL, B.J. WHALLEY, S. MOCHIDA & G.J. STEPHENS
- D174** Dexamethasone-induced up-regulation of human norepinephrine transporter involves the glucocorticoid receptor and increased binding of C/EBP-β to the proximal promoter of this gene  
Q. ZHA, Y. WANG & M.-Y. ZHU
- D175** Simultaneous monitoring multiple neurotransmitters and neuromodulators in mouse hippocampus by microperfusion and chromatographic separation  
M. BARANYI & B. SPERLÁGH
- D176** Synaptic vesicle recycling in living animals  
A. DENKER, I. BETHANI, K. KRÖHNERT, E. NEHER & S.O. RIZZOLI



## POSTER PRESENTATION

- D177** **Regulating nNOS function using lentiviral-mediated gene delivery**  
M. DOUCET, A. HARKIN & K.K. DEV
- D178** **Correlative microscopy: application for the study of GABAB distribution in the dorsal spinal cord**  
P. HORAKOVA, S. LACOMME, E. GONTIER, A. CALAS, F. NAGY & M. LANDRY
- D179** **Post-stress behavior is modulated by SERT regulation of extra-synaptic 5-HT signaling**  
G. JAFARI, Y. XIE, A. KULLYEV & J. SZE
- D180** **Excitatory electrophysiological effects of multi-walled carbon nanotubes on rat brain slices**  
P. VARRÓ, I.C. SZIGYÁRTÓ, A. GERGELY, E. KÁLMÁN & I. VILÁGI
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- 08. Neural plasticity (Physiology of circuit plasticity)**
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- D181** ***In vivo* imaging of climbing fibers plasticity after laser axotomy**  
A.L. ALLEGRA MASCARO, P. CESARE, L. SACCONI, G. GRASELLI, P. STRATA & F.S. PAVONE
- D182** **Ultra-structural features in the posterodorsal medial amygdala of male and female rats**  
J. BRUSCO, E.T. IKEDA, A.A. RASIA-FLHO & J.E. MOREIRA
- D183** **Pattern separation and pattern completion in CA3 improve with spatial water maze overtraining that induced mossy fiber synaptogenesis**  
M. CARASATORRE, A. OCHOA & R.-A. VICTOR
- D184** **Adult neurogenesis *Gallotia galloti* lizards is affected by external and internal cues**  
M.C. DAMAS-HERNANDEZ & F.J. DELGADO-GONZALEZ
- D185** **Structural and biochemical alterations of auditory cortex following noise-induced hearing loss**  
P. DE BARTOLO, F. PACIELLO, S.L.M. ERAMO, A.R. FETONI, L. PETROSINI & D. TROIANI
- D186** **Associative learning induces plasticity of vibrissae representation in SII cortex**  
W. DEBOWSKA, M. LIGUZ-LECZNAK & M. KOSSUT
- D187** **Denervation-induced plasticity and perineuronal net modifications in the adult mouse deep cerebellar nuclei**  
S. FOSCARIN, A. FARALLI, D. PONCHIONE, E. PETITTO, F. ROSSI & D. CARULLI
- D188** **Neuroplastic changes in chick retina after spectral deprivation**  
N.S. FOSSER, L. RONCO, V.G. SÁNCHEZ, C.A. BEJARANO & H. RÍOS
- D189** **Visuomotor plasticity induced by visual deprivation in *Rana pipiens*: role of spontaneous electrical activity and CREB phosphorylation**  
S. GEORGE, M. MISRA, K. YANG & B. MILLINER
- D190** **Optogenetic enhancement of synaptic network of rat hippocampus *in vivo***  
T. HONJOH, T. ISHIZUKA & H. YAWO
- D191** **Developmental switch in the spike timing dependent plasticity at layer 4 to layer 2/3 synapses in coincidence with the initiation of critical period in the mouse barrel cortex**  
F. KIMURA & C. ITAMI
- D192** **Interaction of dendritic locations on STDP of hippocampal CA1 area using optical imaging**  
M. KONDO, M. TSUKADA, H. SASAKI & T. AIHARA
- D193** **Social hierarchy in male zebrafish (*Danio rerio*): effects on adult brain proliferation pattern**  
P. MAKANTASI, L. GKOLES & C.R. DERMON
- D194** **Long-term plasticity chains in the cerebellar cortex**  
J. MAPELLI, D. GANDOLFI & E. D'ANGELO
- D195** **Adult hippocampal neurogenesis, defensive behavior and environmental enrichment in pigeons (*Columba livia*)**  
F.F. MELLEU, V. DE SOUZA, M. PODOLAN, J. DOS SANTOS, T. WALBER, C. CENTURION-WENNINGER, T.S. DOS SANTOS, C. LINO-DE-OLIVEIRA & J. MARINO-NETO
- D196** **Exploring the role of serotonin in S1 expansion in blinded neonatal rats**  
R. MARTÍNEZ MÉNDEZ, P. PADILLA CORTÉS & G. GUTIÉRREZ OSPINA
- D197** **Carbachol-induced hippocampal theta rhythm is suppressed after inactivation of the pedunculo-pontine nucleus in rats**  
P. MATULEWICZ, J. ORZEL-GRYGLEWSKA & E. JURKOWLANIEC
- D198** **Sensory cortical and limbic arg3.1/arc gene expression following exposure to novel or familiar visual and/or auditory stimuli in C57BL/6 and anophthalmic ZRDCT/An mutant mice**  
D. MICELI, J. REPÉRANT, M. MEDINA & D. KUHL
- D199** **Requirement of type 1 metabotropic glutamate receptor for experience-dependent pruning of retinogeniculate synapses**  
M. NARUSHIMA, M. UCHIGASHIMA, K. HASHIMOTO, A. AIBA, M. WATANABE, M. MIYATA & M. KANO
- D200** **Input-pathway specific establishment of repetitive-LTP-induced long-lasting synaptic enhancement in cultured hippocampal slices**  
Y. OE, K. TOMINAGA-YOSHINO & A. OGURA

- D201 Median nerve representation in rat S1 and immediate plasticity after acute forepaw deafferentation**  
J.T. OLIVEIRA, A.M.B. MARTINEZ, R.E. BITTENCOURT-NAVARRETE & J.G. FRANCA
- D202 Different outcomes of the 2-deoxyglucose brain mapping with unilateral and bilateral whisker stimulation in experience-dependent plasticity induced by sensory deprivation**  
S. OLKOWICZ, M. KAZMIERCZAK & J.A. JABLONKA
- D203 iTBS-induced after effects parallel changes in oscillatory activity of neural populations in an old world monkey**  
O. PAPAZACHARIADIS & S. FERRAINA
- D204 Newborn interneurons in the accessory olfactory bulb promote mate recognition in female mice**  
L. OBOTI, R. SCHELLINO, C. GIACHINO, P. CHAMERO, M. PYRSKI, T. LEINDERS-ZUFALL, F. ZUFALL, A. FASOLO & P. PERETTO
- D205 Critical periods for integration and functional activation of new neurons in the accessory olfactory bulb of adult female mice**  
R. SCHELLINO, L. OBOTI, C. GIACHINO, P. CHAMERO, M. PYRSKI, T. LEINDERS-ZUFALL, F. ZUFALL, A. FASOLO & P. PERETTO
- D206 Combination training in aging individuals increases cognitive performances, modifies the resting state brain activity, and is affected by dopamine-related genes**  
V. PIERAMICO, R. ESPOSITO, F. SENSI, F. CILLI, D. MANTINI, P.A. MATTEI, V. FRAZZINI, D. CIAVARDELLI, V. GATTA, G.L. ROMANI & S.L. SENSI
- D207 Experience-dependent expression of miR132 regulates ocular dominance plasticity**  
P. TOGNINI, E. PUTIGNANO, A. COATTI & T. PIZZORUSSO
- D208 Selective disruption of perineuronal nets in mice lacking Crt11 is sufficient to make fear memories susceptible to erasure**  
A. POLI, E. PUTIGNANO, R. MELANI, D. SILINGARDI, J.W. FAWCETT, N. BERARDI & T. PIZZORUSSO
- D209 Parallel fiber - purkinje cell Ltd. induced by granular layer output patterns**  
L. CONGI, F. PRESTORI & E. D'ANGELO
- D210 Shifts in inhibition underlie ocular dominance plasticity in the rat visual cortex**  
L. RESTANI, M. PIETRASANTA, C. CERRI, L. GIANFRANCESCHI & M. CALEO
- D211 A low dose of anandamide facilitates male rat sexual behaviour expression and reverses sexual exhaustion**  
G. RODRÍGUEZ-MANZO & A.G. CANSECO-ALBA
- D212 The interaction between orexin and cannabinoid systems in locus coeruleus on pain modulation**  
M.S. SAFARI, A. HAGHPARAST, A. AHMADIANI & S. SEMNANIAN
- D213 Developmental shift of NMDA receptor subunits is essentially involved in closing the critical period plasticity window in corticospinal synapse elimination in vitro**  
T. OHNO, N. ISOO, N. MURABE, H. MAEDA, N. YOSHIOKA, M. MISHINA & M. SAKURAI
- D214 Swimming forced exercise affects neuroplastic positive responses in mouse cerebellum**  
M. SCHULTZ, A.P.B. ARAÚJO & M. PORCIONATTO
- D215 mRNA translation during sleep consolidates cortical plasticity *in vivo***  
J. SEIBT, M.C. DUMOULIN, S.J. ATON, T. COLEMAN, A. WATSON, N. NAIDOO & M.G. FRANK
- D216 Regulation of dendritic spines by naturally rewarding behaviors**  
N. STAFFEND & R. MEISEL
- D217 Modulation by acetylcholine of STDP in rat hippocampal CA1 network**  
E. SUGISAKI, Y. FUKUSHIMA, M. TSUKADA & T. AIHARA
- D218 Mode of endocannabinoid degradation after depolarization-induced retrograde synaptic suppression in cerebellar Purkinje cells**  
A. TANIMURA, M. YAMAZAKI, M. UCHIGASHIMA, N. UESAKA, T. MIKUNI, K. HASHIMOTO, M. WATANABE, K. SAKIMURA & M. KANO
- D219 Chronic odorant exposure during early postnatal stage increases the number of specific glomeruli in olfactory bulb**  
P. VALLE-LEIJA, E. BLANCO-HERNÁNDEZ, R. DRUCKER-COLÍN, G. GUTIÉRREZ-OSPINA & R. VIDAL-TAMAYO
- D220 Sleep deprivation decreases neuronal excitability and responsiveness in rats**  
I. VILÁGI, Z. HARASZTI, T. HAJNIK, S. BORBÉLY & L. DÉTÁRI
- D221 Doublecortin-positive cells in the arcuate nucleus and their putative role in energy homeostasis**  
L. WERNER, M.J. ROSSNER & M. SCHWANINGER
- D222 *In-vivo* studying neuroanatomical connectivities using novel MR-visible compound GdDOTA-CTB**  
C.W.-H. WU
- D223 Early binocular deprivation differentiates central from peripheral area 17 as visualized by *zif268* expression in cat**  
M. ZAPASNIK, K. LASKOWSKA - MACIOS, T.-T. HU, M. KOSSUT, L. ARCKENS & K. BURNAT
- 
- 10. Pain (Receptors, channels & transmitter systems)**
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- D224 Activation of mGluR5 phosphorylates ERK in both excitatory and inhibitory interneurons in the rat spinal dorsal horn**  
K.S. AL GHAMDI, J. RIDDELL & A.J. TODD



## POSTER PRESENTATION

- D225** Trafficking of AMPA receptors at extrasynaptic plasma membrane of spinal lamina II neurons during persistent inflammatory pain  
O. KOPACH, S.-C. KAO, R.S. PETRALIA, P. BELAN, Y.-X. TAO & N. VOITENKO
- D226** Trafficking of spinal AMPA receptors: a basis for future therapies of persistent pain  
N. VOITENKO, O. KOPACH, A. SOTNYK, V. VIATCHENKO-KARPINSKI, Y.-X. TAO & P. BELAN
- D227** Functional significance of the TRPV1 receptor at the central terminals of primary C afferents in the spinal dorsal horn  
M. YOSHIMURA, D. XIE & D. UTA
- D228** The role of TRPA1 channel on stress-induced recurrence of colitis caused by dextran sulfate sodium (DSS)  
A. VIANA, M. COLA, A. BENTO, R. DUTRA, S.M. RATES & J.B. CALIXTO
- D229** Mechanisms of TRPM8-mediated  $[Ca^{2+}]_i$  and electrical oscillations in sensory neurons  
M.S. YOREK, P. HOULIHAN, A. SLUPE & Y.M. USACHEV
- D230** Plasticity of trigeminal system and pain sensitization: a role of calcitonin gene-related peptide on transient receptor potential vanilloid-1 expression in rat trigeminal ganglion  
D. CHATCHAISAK, A. SRIKIATKHACHORN, P. GOVITRAPONG & B. CHETSAWANG
- D231** Modulation of synaptic transmission by cytokine TNF $\alpha$  and TRPV1 receptors in a model of peripheral neuropathy  
D. SPICAROVA, V. NERANDZIC & J. PALECEK
- D232** Analysis of the eye-wiping response to Cap at different sex, age, doses and drop volume administrated  
B. SANTIAGO, I.E. DIAZ-MUÑOZ, A. DOMÍNGUEZ, P. CARRILLO, P. PACHECO & M. CAMACHO
- D233** TDAG8-mediated TRPV1 sensitization is through two distinct G-protein pathways  
Y.C. CHANG & W.H. SUN
- D234** Local anaesthetic action on ion channels - a new interpretation  
J. NILSSON, H. ZEBERG, K. SAHLHOLM, M. MADEJA & P. ÅRHEM
- D235** Common mechanisms of drug interactions with sodium and T-type calcium channels  
C. BLADEN & G.W. ZAMPONI
- D236** Pathways mediating behavioral hypersensitivity induced by elevated calcium channel  $\alpha$ -2-delta-1 proteins  
Z.D. LUO, A. SANDHU, E. CHANG & C.-Y. LI
- D237** Visceral hypersensitivity induced by forebrain-specific suppression of native Kv7/KCNQ/M-channel activity in mice  
Y. BI, H. CHEN, J. SU, X. CAO, W. XU & K. WANG
- D238** Chronic non-specific low back pain reduction with acupuncture and baclofen: a randomised controlled clinical trial of efficacy  
M. ZARRINGHALAM, J. ZARRINGHALAM & H. MANAHEJI
- D239** Nitric oxide-mediated heterologous regulation of Gi-coupled receptors  
A.-M. BABEY, V. RAMIREZ & K.M. STANDIFER
- D240** Orexin-A modulated pain through the brain stem  
H. AZHDARI ZARMEHRI, S. SEMNANIAN, Y. FATHOLLAHI & E. ERAMI
- D241** Antinociceptive effect of different psychostimulants in prenatally methamphetamine-exposed rats  
A. YAMAMOTOVA, B. SCHUTOVÁ, L. HRUBÁ, R. ŠLAMBEROVÁ & R. ROKYTA
- D242** Nociceptive function of spontaneous high current spikes in the anterior cingulate cortex  
B.C. SHYU, H.-C. SHIH & J.-W. YANG
- D243** Pain sensitivity to cold stimuli is associated with the functional A118G polymorphism of the OPRM1 gene  
M. MARTÍNEZ-JAUAND, J. GEA, C. SITGES, V. RODRÍGUEZ, I. COSTA, J.A. CASTRO & M. PEDRO
- D244** Effect of bilateral destruction of the nucleus cuneiformis on morphine-induced attenuation of formalin pain responses mediated by nucleus raphe magnus  
M. EBRAHIMZADEH-SARVESTANI, M. ORDIKHANI-SEYEDLAR, M. ZIAEI, A. PARVISHAN & A. HAGHPARAST
- D245** Pain-induced expression of the homeobox gene *Prrx1* in peptidergic and non-peptidergic DRG neurons  
C. MONTEIRO, M. MATOS, S. REBELO, V. GALHARDO, C. REGUENGA & D. LIMA
- D246** UFP-112 a highly potent and selective peptide agonist for the nociceptin/orphanin FQ receptor: in vitro and in vivo studies  
G. CALO', A. RIZZI, D. REGOLI, S. SALVADORI & R. GUERRINI
- D247** Separating analgesia from addictive liability within the ventral tegmental area  
E. SCHIFIRNET, A. AMINE, J.M. LUCAS, C.S. LATI, S.E. BOWEN & G.S. BORSZCZ
- D248** Presynaptic inhibition of dorsal horn nociceptive responses mediated by sensorimotor cortical stimulation  
J. PÉREZ-SÁNCHEZ, M. CONDÉS-LARA, G. MARTÍNEZ-LORENZANA, J. RODRÍGUEZ-JIMÉNEZ & G. ROJAS-PILONI

- D249** A central role for the insula in the perception of bodily needs and pain  
F. TORREALBA, M. CONTRERAS, C. MADRID, T. PELISSIER, L. CONSTANDIL, R. HENDRIKH, M. VÁSQUEZ & P. ALVAREZ
- D250** Leptin-controlled orexin/endocannabinoid interactions in the mouse periaqueductal grey: role in the regulation of the descending antinociceptive pathway  
L. CRISTINO, L. LUONGO, R. IMPERATORE, A. DI NUNZIO, S. BOCCCELLA, S. PETROSINO, P. ORLANDO, S. MAIONE & V. DI MARZO
- D251** Decrease of spinal faah activity modulates endocannabinoid/endovanilloid system and delays the development of neuropathic pain in rats  
W. MAKUCH, K. STAROWICZ, M. ZYCHOWSKA & B. PRZEWLOCKA
- D252** Role of cannabinoid receptors in hyperalgesia induced by nitroglycerin: study in animal model of migraine  
A.S. MANGIONE, R. GRECO, G. LEVANDIS, G. SANDRINI, G. NAPPI & C. TASSORELLI
- D253** Role of GLT-1 transporter activation in prevention of cannabinoid tolerance by the beta-lactam antibiotic, ceftriaxone, in mice  
O. GUNDUZ, C. OLTULU & A. ULUGOL
- D254** PPAR $\alpha$  mediates a transcription-independent effect of palmitoylethanolamide on dorsal root ganglion neurons  
V. SEYBOLD, Y. XIONG, L. COICOU & I. KHASABOVA
- D255** Acid-induced signaling is enhanced by oligomerization of OGR1 and G2A  
Y.S. SU, C.W. HUANG & W.H. SUN
- D256** Reduced striatal D2 receptor binding in Fibromyalgia  
K. LEDERMANN, J. JENEWEIN, H. SPROTT, G. HASLER, U. SCHNYDER, C. BURGER, A. JOHAYEM, T. CSERVENYAK, S. KOLLIAS, A. BUCK & C. MARTIN-SOELCH
- D257** Modulation of postsynaptic reaction in the neocortical neurons during stimulation of nucleus raphe  
T. LABAKHUA, T. JANASHIA, G. GEDEVANISHVILI, T. TKEMALADZE & E. ABZIANIDZE
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- 12. Motor systems (Movement & coordination)**
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- D258** Changes in “intra-limb” anticipatory postural adjustments after a short-term immobilization of both wrist and fingers  
F. BOLZONI, C. BRUTTINI, R. ESPOSTI & P. CAVALLARI
- D259** The precision of a voluntary movement relies on its associated anticipatory postural adjustments  
A. CARONNI, F. BOLZONI, R. ESPOSTI & P. CAVALLARI
- D260** Influence of audio-stimuli on isochronic repetitive movements: time analysis using kinematic and EEG data  
C. DEL TONGO, R. BRAVI, E. QUARTA, A. TOGNETTI, G. DALLE MURA & D. MINCIACCHI
- D261** The effect of physical similarity on motor resonance mechanisms: a behavioral and electrophysiological study  
M.-C. DÉSY, J.-F. LEPAGE & H. THÉORET
- D262** A quantitative analysis of human visuomotor behaviour during social cooperation  
F. DI BERARDINO, G. CONFALONE, S. FERRARI-TONIOLO, F. VISCO-COMANDINI & A. BATTAGLIA-MAYER
- D263** Coordination of iso- and antidirectionally coupled arm oscillations in the parasagittal plane  
R. ESPOSTI & F.G. BALDISSERA
- D264** Effects of reversible inactivation of posterior parietal cortex on reaching movements with target jump  
S. FERRARI-TONIOLO, S. SABERI-MOGHADAM, P.S. ARCHAMBAULT, R. CAMINITI & A. BATTAGLIA-MAYER
- D265** A sensory-motor network for the bodily self  
F. FERRI, F. FRASSINETTI, M. ARDIZZI, M. COSTANTINI & V. GALLESE
- D266** Fine control of human hand shape  
T.E. JERDE & M. FLANDERS
- D267** Cortical integration of hand actions in a bimanual prehension task  
E.P. GARDNER, J. CHEN & D. PUTRINO
- D268** Brain lesion overlap reveals distinct neural processes of quick online controls for visual target and background  
H. GOMI, T. ASO, K. KADOTA, K. KAWANO & H. FUKUYAMA
- D269** Two types of NMDA-induced rhythmic activity in the trigeminal motor nerve of neonatal mice *in vitro*  
Y. IHARA, K. NAKAYAMA, K. TAKAHASHI & T. INOUE
- D270** Tectoreticular pathway and its link to visuomotor control  
A.A. KARDAMAKIS, M. STEPHENSON-JONES, B. ROBERTSON & S. GRILLNER
- D271** Neuronal activity in the frontal eye field and adjacent cortical areas of monkeys during reaching by eyes and/or hand  
K. KURATA
- D272** The effect of intermittent hypoxia on ethanol-impaired motor coordination  
H. LO, C.-Y. CHEN & H.-H. LIN
- D273** On the potentiation of motor affordances by visual objects  
S. MAKRIS, A. HADAR & K. YARROW
- D274** Oromotor rhythmic activity evoked by electrical stimulation of the trigeminal nerve sensory root in an isolated brainstem preparation from neonatal mice  
K. NAKAYAMA, Y. IHARA & T. INOUE



## POSTER PRESENTATION

- D275** Properties of synaptic transmission from regions surrounding the trigeminal motor nucleus to trigeminal motoneurons in neonatal rats  
M. NONAKA, T. INOUE, A. NISHIMURA, K. NAKAYAMA, A. MOCHIZUKI, S. NAKAMURA, S. YOSHIMURA & T. IJIMA
- D276** Control of muscle activation as a function of the initial leg position in a simple cycling paradigm  
J. PADULO, P. MIGNOGNA, G. ATTENE, G.M. MIGLIACCIO, S. D'OTTAVIO & D. VIGGIANO
- D277** Hand and mouth movement-related neurons in the macaque ventrolateral prefrontal cortex  
S. ROZZI, L. SIMONE, F. RODÀ, M. BIMBI, A. CALAPAI, G. LUPPINO & L. FOGASSI
- D278** Evolution of neural variability in the parieto-frontal system during change of motor intention  
S. SABERI -MOGHADAM, S. FERRARI-TONIOLO, P.S. ARCHAMBAULT, R. CAMINITI & A. BATTAGLIA-MAYER
- D279** Role of goal and motor expertise during the observation of usual actions performed by unusual effectors  
I. SENNA, N. BOLOGNINI & A. MARAVITA
- D280** Paw preference in rats is related to distinct patterns of brain monoamine function in a sex-dependent manner  
R. SULLIVAN, S. CHEHAB, M. DUFRESNE & F. LAPLANTE
- D281** Electrophysiological correlates of goal-directed movements in humans: successful and unsuccessful trials  
A. TREMBACH, E. KUJZENKO, O. GORBATOVA & S. SEROPYAN
- D282** Behavioural and neurophysiological correlates of manual performance asymmetries in right and left-handers  
T.W. DAVIDSON & F. TREMBLAY
- D283** A comparison of movement-related single unit activity in the primate globus pallidus and motor cortex during the performance of motor sequence tasks  
R.S. TURNER
- D284** The process of learning tool-use in 3 years old children observed from hand preference given tool location and orientation, and gaze  
K. WATANABE
- D285** Neural correlates of multiple time scales during long-term motor sequence learning  
N.F. WYMBS & S.T. GRAFTON
- D287** Lesions of the Basolateral Amygdala, but not Central, can interfere with the performance under omission of different reward magnitudes  
J.L.O. BUENO, D.M. JUDICE-DAHER & T.F. TAVARES
- D288** Strengthening of new formed emotional memories by glucocorticoid and glutamate-NMDA receptors: temporal activation and the involvement of hippocampus  
A.P. CAROBREZ, J.A.V. KROON & R.R. SOUZA
- D289** Memory reactivation and hippocampal precise representation of memory  
L. DE OLIVEIRA ALVARES, F. SANTANA, A. CRESTANI, J. HAUBRICH, L. CASSINI, J. QUILLFELDT & K. NADER
- D290** Identification of a neural correlate of hippocampal-dependent memory in the dentate gyrus  
C.A. DENNY, K.F. TANAKA, K. LAUGHMAN, R.A. BRACHMAN & R. HEN
- D291** Are the anterior thalamic nuclei necessary for remembering *when* an item was encountered?  
J.R. DUMONT & J.P. AGGLETON
- D292** The role of DLPFC and trait anxiety in emotional memory retrieval. A rTMS study  
C. FERRARI & M. BALCONI
- D293** Fear responses are mediated by different regions of the rat brain: role of dorsal striatum on acquisition and consolidation of emotional memory, evaluated by hormonal and behavioral expression  
T.L. FERREIRA, R.B. FERRARI, D. SUCHECKI, P.A. TIBA & M.G.M. OLIVEIRA
- D294** Brain circuits involved in rat egocentric learning under different light-dark (lighting) conditions  
C. FIDALGO, N.M. CONEJO, H. GONZALEZ-PARDO, M. MENDEZ L. & J.L. ARIAS
- D295** Novel localization of NF-kappa B in mouse synaptic terminals. Activation dynamics during memory consolidation  
M. LAGOS, M. BOCCIA, M. BLAKE, N. CORBI, C. PASSANANTI, C.M.M. BARATTI, A.G. ROMANO & R.A.M. FREUDENTHAL
- D296** Labilize or not labilize? That is the question  
M.S. FUSTIÑANA, V. DE LA FUENTE, R. FREUDENTHAL & A. ROMANO
- D297** Effects of catecholaminergic lesions of prefrontal cortex on cued discrimination task performance in rats  
R. GÁLOSI, A. TÓTH, P. ZOLTÁN & L. LÉNÁRD
- D298** Effects of histamine microinjected into the cerebellar vermis on memory retention of inhibitory avoidance learning in mice  
A.C.L. GIANLORENÇO, A. CANTO-DE-SOUZA & R. MATTIOLI
- 
- 13. Learning & memory (Localization & animal models)**
- D286** Entorhinal cortex role in fear conditioning consolidation in the rat  
E. BALDI & C. BUCHERELLI

- D299** Does the hippocampus facilitate storage of contextual fear memory by nonhippocampal networks?  
T.L. GULBRANDSEN, F.T. SPARKS & R.J. SUTHERLAND
- D300** Fear extinction and renewal result in activation of anatomically different neuronal populations in the lateral, but not in the central amygdala  
E. KNAPSKA, M. MACIAS, T. WERKA, M. MIKOSZ, A. NOWAK, J. JAWORSKI & L. KACZMAREK
- D301** Dopamine D4 transmission in the prefrontal cortex controls the salience of emotional experience by modulating CaMKII activity  
N. LAUZON & S.R. LAVIOLETTE
- D302** Size matters: exploration of larger arenas is preferentially reduced by caudal hippocampal lesions in mice  
I. LEBEDEV, P. KUPTSOV, R. DEACON & M. PLESKACHEVA
- D303** Intra-medial pre-frontal cortical dopamine D1 receptor antagonism impairs working memory in the male rat  
D. MADULARU, A.L. BILODEAU & W.G. BRAKE
- D304** Processing of a fear memory: early and late role of the medial prefrontal cortex  
C. GONZALEZ, C. KRAMAR, C. KATCHE, J. ROSSATO, F. GARAGOLI, M. TOMAIUOLO, J. HOLMBERG, G. DORMAN, M. CAMMAROTA & J.H. MEDINA
- D305** Enhancement of neurotransmission in the nucleus of the solitary tract modulates taste aversive memory formation through noradrenergic and glutamatergic activity in the amygdala  
M.J. MIRANDA & N.E. GARCÍA-MEDINA
- D306** Learning impairment caused by intra-CA1 microinjection of testosterone increases the number of astrocytes  
N. NAGHDI, S. EMAMIAN, H. SEPEHRI, M. JAHANSHAHI, Y. SADEGHI & S. CHOOPANI
- D307** The modulation of the hippocampal function by the cholinergic and noncholinergic cells of the septum  
T. NANEISHVILI, M. DASHNIANI, M. BURJANADZE, N. CHKHIVISHVILI, G. MAGLAKELIDZE, G. BESELIA & R. SAKANDELIDZE
- D308** Bilateral cholinergic lesions in the nucleus basalis impair sound localization and perceptual learning  
N.D. LEACH, V.M. BAJO LORENZANA, P.M. CORDERY, F.R. NODAL & A.J. KING
- D309** Participation of cholinergic system in persistence of memory in rats  
G.M. PARFITT, R.C. CAMPOS, Â.K. BARBOSA, A.P. KOTH & D.M. BARROS
- D310** Enhanced inhibitory avoidance learning protects against memory consolidation deficits induced by protein synthesis inhibition in dorsal hippocampus  
R.A. PRADO-ALCALÁ, L.M. RODRÍGUEZ-SERRANO, A.C. MEDINA & G.L. QUIRARTE
- D311** Glucocorticoid administration into the striatum facilitates memory consolidation of tone fear conditioning but not of contextual fear conditioning  
V.A. ARENAS, L.G. GARCÍA-LARA, N. SERAFÍN, A. REYES DE LA TORRE, R.A. PRADO-ALCALÁ, B. ROOZENDAAL & G.L. QUIRARTE
- D312** Expression of contextual fear conditioning depends of acetylcholine in lateral septal area  
D.G. REIS, A.A.A. SCOPINHO, F.M.A. CORRÊA & L.M.B. RESSTEL
- D313** Learning-induced morphological changes of large mossy fiber terminals at DG-CA3 synapses  
L. RESTIVO & P.W. FRANKLAND
- D314** Role of secondary and tertiary auditory cortices in the storage of fear memories  
T. SACCO & B. SACCHETTI
- D315** Ibotenic acid lesions of nucleus basalis magnocellularis interrupt spatial but not passive avoidance memory in rats  
A.H. SOLTANI TEHRANI, B. SOLTANI TEHRANI, P. BABAEI & S. FELLEZI
- D316** Learning-induced c-Fos expression in the retrosplenial cortex depends on the number of stages of the previous training  
O.E. SVARNIK, A.I. BULAVA, T.A. FADEEVA, K.V. ANOKHIN & Y.I. ALEXANDROV
- D317** Impact of neuronal CPEB2 on the translation of mRNAs involved in synaptic plasticity  
S.L. TURIMELLA, V. VANGOOR, L. KACZMARCZYK, P. BEDNER, S. PABLICK, G. SEIFERT, R. JABS, C. STEINHÄUSER & M. THEIS
- D318** Involvement of the teleost telencephalic pallium in spatial cognition evaluated by cytochrome oxidase histochemistry  
S. UCEDA, B. RODRÍGUEZ, I. MARTÍN & F. RODRÍGUEZ
- D319** The brain response during acquisition of aversive taste memory  
A. UEMATSU, T. TSURUGIZAWA, A. KITAMURA, K. IWATSUKI, H. UNEYAMA & K. TORII
- D320** Glucocorticoid administration into the nucleus accumbens shell modulates memory consolidation of both safe taste learning and conditioned taste aversion  
R. WICHMANN & B. ROOZENDAAL
- D321** Visuo-spatial learning and memory in the AppSwe/PS1dE9 and 5XFAD mouse models of Alzheimer disease  
R.E. BROWN, T.P. O'LEARY & R.K. GUNN
- D322** Memory dysfunction and oxidative DNA damage in rat treated by arsenic  
M.S. BIN SAYEED, F. HASAN, M. ARIF & A. HASNAT



## POSTER PRESENTATION

- D323** **Molecular and structural alterations in the central nervous system of mice lacking cathepsin K**  
S. DAUTH, R.F. SÎRBULESCU, S. JORDANS, M. REHDERS, L. AVENA, J. OSWALD, A. LERCHL, P. SAFTIG & K. BRIX
- D324** **Methylphenidate improves the behavioral and cognitive deficits of neurogranin knockout mice**  
E.L. HUANG & K.-P. HUANG
- D325** **Functional autoradiography reveals unaltered cannabinoid CB1 receptor signalling in three brain regions of APP/PS1 transgenic mice**  
E. KÄRKKÄINEN, H. TANILA & J.T. LAITINEN
- D326** **Anatomical, neurochemical and functional consequences of selective cholinergic lesioning combined with local infusion of pre-aggregated amyloid peptide**  
G. KLEINER, V. ANTONINI & G. LEANZA
- D327** **Specific deficit in cognitive coordination after systemic injection of dizocilpine (MK-801): support for phenomenological validity of a pharmacological animal model of cognitive symptoms in schizophrenia**  
S. KUBIK, H. BUCHTOVA, K. VALES & A. STUCHLIK
- D328** **Effect of acupuncture on LPS-induced cognitive impairment in mice**  
J.M. LEE, A.R. DOO, H.S. SHIM, B. LEE, H. LEE, H.J. PARK & C.S. YIN
- D329** **Masticatory deprivation followed by rehabilitation improves spatial learning and memory in adult albino Swiss mice**  
F.C.C.S. MENDES, A.P.G. FELÍCIO, M. FALSONI, M.L.F. ANDRADE, M.N.F. ALMEIDA, J. BENTO TORRES, C.W. PICANÇO-DINIZ & M.C.K. SOSTHENES
- D330** **Effects of acute mild stress on spatial memory in Huntington's disease mice**  
C. MO, T. RENOIR & A. HANNAN
- D331** **Age-dependent episodic memory impairments in the Tg2576 model of amyloid pathology**  
A.M. PALMER & M. GOOD
- D332** **Cognitive functions of P2X<sub>7</sub> receptor knockout mice with intrahippocampal lipopolysaccharide infusions**  
L. SANG RIM, L. SO HEE, L. JAE RAN & H. JUNG SOO
- D333** **Individual cholinergic synaptic and nicotinic receptor organization of learning and memory in rats with normal and chronic ischaemic brains**  
E.I. ZAKHAROVA, Z.I. STOROJEVA, M.V. RAYEVSKAYA & A.M. DUDCHENKO
- 14. Cognition & emotion (Food intake, reward, fear & anxiety)**
- D334** **Attenuated amygdala activity in mice overexpressing the serotonin transporter during fear conditioning using *in vivo* oxygen amperometry**  
C. BARKUS, A. HUBER, L. CAPITAO, A.M. TAYLOR, K.A. JENNINGS, T. SHARP, D.M. BANNERMAN & S.B. MC HUGH
- D335** **Nucleus accumbens and prefrontal cortex dopamine modifications during operant responding for sucrose**  
V. BASSAREO, P. MUSIO, F. CUCCA & G. DI CHIARA
- D336** **Melanin-concentrating hormone microinjections into the medial preoptic area reduces maternal behavior in the lactating rat**  
L. BENEDETTO, M. PEREIRA, P. LAGOS, P. TORTEROLO & A. FERREIRA
- D337** **Effect of medial prefrontal cortex 6-hydroxy-dopamine on the nucleus accumbens dopamine responsiveness to appetitive stimuli**  
Z. BIMPISIDIS, M.A. DE LUCA, V. VALENTINI & G. DI CHIARA
- D338** **Effects of physical and social environmental enrichment on ultrasonic vocalizations in rats**  
J.C. BRENES & R.K.W. SCHWARTING
- D339** **Regulation of motivation to self-administer acetaldehyde by L-cysteine in Wistar rats**  
G.R. FOIS, G. MUGGIRONI, M. DIANA & A.T. PEANA
- D340** **The effect of sucrose dilution on licking microstructure resembles the effect of either dopamine antagonists or reward devaluation on operant responding for a reward**  
A. GALISTU & P.S. D'AQUILA
- D341** **Dopamine correlates of altered sucrose reward in a dietary obese rat model of Roux-en-Y gastric bypass surgery**  
A. HAJNAL, A. ZHARIKOV, M.R. FIELDS, M. SUN & N.K. ACHARYA
- D342** **The neurons of the prefrontal cortex are able to discriminate the value of food reinforcement in the delayed reward task in cats**  
E. KULESHOVA, V. SIDORINA, A. ZALESCHIN & G. MERZHANOVA
- D343** **Spectral theta peak shifts during operant conditioning of electroencephalographic band activity in rats**  
M. ROH, M. KIM, I.-S. JANG, P. CHOI, J.J. CHROBAK & M.-G. LEE
- D344** **Selection for high vs. low rates of juvenile 50 kHz vocalization alters anxiety and fear extinction in Long Evans rats**  
K.Z. MEYZA, C.M. MCCORMICK, J. BURGDORF, R.A. KROES, J.R. MOSKAL, J. PANKSEPP & S.M. BRUDZYNSKI



- D345** Effect of time discounting on the reward- and conditioned stimulus-related activity of striatal neurons  
K. OYAMA, I. HERNÁDI, T. IJIMA & K.-I. TSUTSUI
- D346** Are the cognition-enhancing effects of voluntary wheel running mediated by its rewarding effects via the secretion of glucocorticoids?  
M. EBADA, D.A. KENDALL & M.C. PARDON
- D347** Reward related single-unit activity changes in the rat medial prefrontal cortex  
Z. PETYKÓ, A. TÓTH, R. GÁLÓSI, K. KARÁDI, K. MÁTHÉ, I. SZABÓ, Z. KARÁDI & L. LÉNÁRD
- D348** Activation of orexin receptors in CA1 region of hippocampus is not rewarding for rats  
E. RIAHI, F. KHODAGHOLI & A. HAGHPARAST
- D349** Comparative study of the influence of the acute administration of drugs of abuse on 50-kHz ultrasonic vocalization in male rats  
N. SIMOLA, S. FENU, A. PLUMITALLO, A. PINNA & M. MORELLI
- D350** Naloxone fails to block CPP induced by electrical stimulation on the lateral hypothalamus  
M.J. SIMON, R. GARCIA & A. PUERTO
- D351** Neural mechanisms underlying endogenous-exogenous attention  
A. CARBONI, D. KESSEL, M. TAPIA, S. LÓPEZ, J. ALBERT, A. CAPILLA, Á. HAGEDOORN & L. CARRETIÉ
- D352** Inhibition of superior colliculi activity during exogenous attention  
L. CARRETIÉ, M. RÍOS, J.A. PERIÁÑEZ, D. KESSEL, J. ALBERT, S. LÓPEZ-MARTÍN & J. ÁLVAREZ-LINERA
- D353** The effect of eye movements, visual stimulation and task complexity on alpha ERD  
N.S. ERMACHENKO, A.A. ERMACHENKO & A.V. LATANOV
- D354** Emotional faces induce lateral attention shifts  
R. GUPTA & J. RAYMOND
- D355** The role of cholinergic cortical modulation in visual and olfactory attention using the 5-Choice serial reaction time task  
V. LJUBOJEVIC, P. LUU & E. DE ROSA
- D356** Endogenous-like orienting of visual attention in rats  
C.F. MAROTE & G.F. XAVIER
- D357** The effect of crossmodal attention takes longer to appear than that of unimodal attention  
L.L. RIGHI & L.E. RIBEIRO-DO-VALLE
- D358** Contingent attentional capture in the Posner cueing paradigm: the use of placeholders  
E.A. SAIS & L.E. RIBEIRO DO VALLE
- D359** Effects of the ovine-CRF injections into the periaqueductal gray columns on conditioned fear responses  
K.G. BORELLI, L. ALBRECHET-SOUZA & M.L. BRANDAO
- D360** Fear response in Steroidogenic factor 1 knockout mice exposed to cat odor  
T. BUDEFELD, S. TOBET & G. MAJDIC
- D361** Different fear states engage distinct networks within the intercalated cell clusters of the amygdala  
D. BUSTI, R. GERACITANO, N. WHITTLE, Y. DALEZIOS, M. MAŃKO, W. KAUFMANN, K. SÄTZLER, N. SINGEWALD, M. CAPOGNA & F. FERRAGUTI
- D362** Effects of angiotensin II receptor antagonists on anxiety and some oxidative stress markers in rat  
A.S. CIOBICA, L. HRITCU, V. BILD, M. PADURARIU & W. BILD
- D363** Isolation stress during the pre-pubertal period in rats induces long-lasting oxidative stress in the hippocampus  
R. KROLOW, C. NOSCHANG, L. DIEHL, L. PETTENUZZO, S.N. WEIS, D. ARCEGO, M. MARCOLIN, A.P. HUFFELL, C. MOTTA & C. DALMAZ
- D364** The elevated T-maze task as an animal model to simultaneously investigate the effects of drugs on memory and anxiety in mice  
E.C. GAVIOLI, L.S. ASTH, E. ANDRE & V.P. RACHETTI
- D365** Long-term emotional consequences of traumatic stress depends on the degree of context fear conditioning  
C.E.N. GIRARDI, P.A. TIBA & D. SUCHECKI
- D366** Functional status of brain mitochondria under psycho-emotional stress  
Z. KUCHUKASHVILI, N. KOSHORIDZE, K. MENABDE, G. BURJANADZE, M. CHACHUA & M. CHIPASHVILI
- D367** Functional characterization of DRR1, a novel stress-inducible gene in the mouse brain  
C. LIEBL, M.V. SCHMIDT, J.-P. SCHÜLKE, C. AVRABOS, M. EDER, T. REIN & M.B. MÜLLER
- D368** Higher doses of the endocannabinoid anandamide can potentiate flight reaction induced by nitric oxide donor in the dorsolateral periaqueductal gray: involvement of TRPV1 receptors  
S.F. LISBOA & F.S. GUIMARÃES
- D369** Modulation of conditioned fear by relaxin-3/RXFP3 signaling in the central amygdala of the rat  
S. MA, F.E. OLUCHA-BORDONAU, M.A. HOSSAIN, J.D. WADE, A.J.M. VERBERNE & A.L. GUNDLACH
- D370** Anxiety-like behavior in spatial memory performances after bilateral vestibular deafferentation in rats  
M.-L. MACHADO, V. LELONG-BOULOUARD, V. BOUET, T. FRERET, M. BOULOUARD, P. DENISE & S. BESNARD



## POSTER PRESENTATION

- D371** **Role of the rat insular cortex in conditioned fear**  
C. MADRID, M. CONTRERAS, K. GÓMEZ, M. VÁSQUEZ & F. TORREALBA
- D372** **Females are less susceptible to early life stress induced behavioral deficits - what is the underlying mechanism?**  
J. MANIAM, L. BOBROVSKAYA, L. ONG, P. DUNKLEY & M.J. MORRIS
- D373** **Acute corticosterone administration induces delayed effects on anxiety-like behaviors via an interaction with the noradrenergic system**  
F. MESSANVI, S. CHATTARJI & B. ROOZENDAAL
- D374** **(Fe)male empathy: sex-specific neural correlates of socially transferred fear**  
M. MIKOSZ, E. KNAPSKA, A. NOWAK, E. NIKOLAEV, N. MADROWSKI, J. SADOWSKA, L. KACZMAREK & T. WERKA
- D375** **Effect of clonazepam exposure on social interaction of rats at three developmental stages**  
A. MIKULECKÁ, M. ŠUBRT & H. KUBOVÁ
- D376** **Polymorphisms in the serotonin transporter gene are associated with emotion regulation difficulties and attentional biases to threatening faces**  
A.C. MIU, R. VULTURAR, A. CHIS, J. AVRAM, I. COCIA, L.C. USCATESCU & A. BECIU
- D377** **Behavioural characterization of mice knockout for the neuropeptide S receptor gene**  
A. PULGA, C. RUZZA, A. RIZZI, G. MARZOLA & G. CALO'
- D378** **Evidence for a disruptive effect of cannabidiol on fear memory reconsolidation**  
C.A. STERN, L. GAZARINI, A.P. CAROBREZ, R.N. TAKAHASHI, F.S. GUIMARÃES & L.J. BERTOGLIO
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- 15. Neurodegeneration & aging (ALS, Parkinson & Huntington's disease)**
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- D379** **The antidyskinetic effect of exercise on L-DOPA-treated hemiparkinsonian mice**  
A.S. AGUIAR JR, A. HOELLER, E.L. MOREIRA, P.A. OLIVEIRA, F.C. MATHEUS, F.M. CÓRDOVA, A.A. CASTRO, R.B. LEAL, A. LATINI, R. RAISMAN-VOZARI & R.D. PREDIGER
- D380** **DJ-1 knock-down impairs astrocytes mitochondrial function**  
G. AMBROSI, N.J. LARSEN, S.J. MULLETT, D.A. HINKLE & S.B. BERMAN
- D381** **Nigral dynorphin peptide levels are associated with L-DOPA-induced dyskinesia in experimental Parkinson's disease**  
M. ANDERSSON, A. KARLSSON, M. FÄLTH, J. HANRIEDER & J. BERGQUIST
- D382** **OPA1 cleavage mediates impaired mitochondrial dynamics in an experimental model of Parkinsonism**  
A. ALAIMO, R.M. GOROJOD, C.E. SAPIENZA & M.L. KOTLER
- D384** **Peripheral markers of neuroinflammation in Parkinson's disease**  
E. BAZZINI, M.-T. ARMENTERO, S. CERRI, G. LEVANDIS, C. GHEZZI, C. PACCHETTI, S. CRISTINA, C. TASSORELLI, R. ZANGAGLIA & F. BLANDINI
- D385** **Neuroprotective effects of FGF-20 on ventral mesencephalic embryonic dopamine neurons and in the partial 6-OHDA rat model of Parkinson's disease**  
E.L. BOSHOFF & S. DUTY
- D386** **Exploring nicotinic acetylcholine receptor independent effects of nicotine on mitochondrial dynamics as a potential mechanism of nicotine-mediated neuroprotection in Parkinson's disease**  
L.M. BUHLMAN & P. LEWIS
- D387** **Neuroprotective potential of adenosine A<sub>2A</sub> and cannabinoid CB<sub>1</sub> receptor antagonists in an animal model of Parkinson's disease**  
S. CERRI, G. LEVANDIS, G. AMBROSI, A. PINNA, R. FRANCO, C.E. MÜLLER, F. BLANDINI & M.T. ARMENTERO
- D388** **The protective effect of icariin against MPP<sup>+</sup>-induced toxicity in MES23.5 cells**  
W. CHEN, L. WU, L. ZHOU & A. XU
- D389** **Electrophysiological effects of group I metabotropic glutamate receptors on pallidal neurons in normal and 6-OHDA parkinsonian rats**  
L. CHEN, X.-R. SUN, Y. XUE, R. XU & R. QI
- D390** **Urate and inosine protection mechanisms in a cellular model of Parkinson's disease**  
S. CIPRIANI, C.A. DESJARDINS, T.C. BURDETT, Y. XU, K. XU & M.A. SCHWARZCHILD
- D391** **Effect of 6-hydroxydopamine on MKP-1 expression in differentiated embryonic rat ventral mesencephalic neural precursor cells**  
L.M. COLLINS, A. TOULOUSE & Y.M. NOLAN
- D392** **Early cognitive impairment in a Parkinson's disease rat model**  
T.M. FLORIO, G. CONFALONE, D. MINCHELLA, A. CAPOZZO, E. SCARNATI, A. SOTGIU & M. ALECCI
- D393** **Neurorescue properties of cystamine following MPTP-induced parkinsonism in mice**  
C. GIBRAT, M. BOUSQUET, K. GUÉ, M. SAINT-PIERRE, C. ROUILLARD & F. CICHETTI

- D394** Leucine-rich repeat kinase 2 regulates autophagy through a calcium-dependent pathway involving NAADP  
P. GÓMEZ-SUAGA, B. LUZÓN-TORO, D. CHURAMANI, L. ZHANG, D. BLOOR-YOUNG, S. PATEL, P.G. WOODMAN, G.C. CHURCHILL & S. HILFIKER
- D395** Neuroprotective effect of 3',4',7-trihydroxyflavone on 6-hydroxydopamine-induced cell death in SH-SY5Y cells  
S.-I. HONG, S.-H. KWON, K.-W. LEE, I.-J. YOU, T.-L. NGUYEN, J.-A. KIM, Y.-H. JUNG, M.-J. KIM, S.-Y. LEE & C.-G. JANG
- D396** Reconstruction of the nigrostriatal pathway by intranigrale transplantation  
M. JABER, B. SAHA, I. FRAPPÉ & A. GAILLARD
- D397** *Lonicera japonica* THUNB. protects neurotoxins-induced parkinsonism by inhibitions of oxidative stress and dopamine depletion in in vivo and in vitro models  
S.-H. KWON, S.-I. HONG, Y.-H. JUNG, K.-W. LEE, I.-J. YOU, L.T. NGUYEN, J.-A. KIM, M.-J. KIM, S.-Y. LEE & C.-G. JANG
- D398** Mutant alpha-synuclein attenuated its interaction with mortalin  
J. XU, F. XU & J. JIN
- D399** Protective action of matrix metalloproteinase-7 against in dopaminergic neuronal degeneration  
K.H. KANG, H.C. LIOU, W.H. YU & W.M. FU
- D400** Phenotypic traits of striatal neurons expressing tyrosine hydroxylase and effects of nigrostriatal dopamine pathway injury  
M. KLITZ, C. DEPBOYLU, G.U. HÖGLINGER, E. WEIHE & M.K.-H. SCHÄFER
- D401** *In vitro* imaging of transplanted adult mesenchymal stem cells in an animal model of Parkinson's disease  
G. LEVANDIS, P. BOSSOLASCO, S. CERRI, V. DIANA, V. SILANI, G. LAMBERTENGI DELILIERI, E. POLLI, L. COVA, F. BLANDINI & M.T. ARMENTERO
- D402** Neurotransmitter receptors in Parkin and DJ-1 knockout mice - a quantitative multireceptor study  
J. LOPEZ ESCOBAR, K. AMUNTS & K. ZILLES
- D404** Alpha-synuclein protects neurons from oxidative stress down-stream from free-radical production and scavenging  
R.E. MUSGROVE, A.E. KING & T.C. DICKSON
- D405** Alpha-synuclein modulates the localization, expression and function of NR2B-containing NMDA receptors: implications in the pathogenesis of Parkinson's disease  
L. NAVARRIA, M. ZALTIERI, P. SPANO & A. BELLUCCI
- D406** Regenerative potential of the rodent substantia nigra  
A. NORAZIT, M.N. NGUYEN, C.G.M. DICKSON, B. CAVANAGH, S.-A. POULSEN, A. MACKAY-SIM & A.C.B. MEEDENIYA
- D407** Antioxidant capacity alterations in serum of Parkinson's disease patients: a possible biomarker?  
K. OMURA, S. FUJIHARA, M. DOMINGUES, R. GASPAR, E. YAMADA, S. PERCARIO, K. KIETZER & J. FREITAS
- D408** Mice with genetic deletion of the heparin binding growth factor midkine exhibit early preclinical features of Parkinson's disease  
R.D. PREDIGER, A.E. ROJAS-MAYORQUIN, A.S. AGUIAR JR., C. CHEVARIN, R. MONGEAU, M. HAMON, L. LANFUMEY, E. DEL BEL, H. MURAMATSU, J. COURTY & R. RAISMAN-VOZARI
- D409** The intranasal MPTP model of Parkinson's disease: new insights for an old toxin  
R. RAISMAN-VOZARI, A.S. AGUIAR-JR, E.L. MOREIRA, F.C. MATHEUS, A.A. CASTRO, R. WALZ, A.F. DE BEM, A. LATINI, C.I. TASCA, M. FARINA & R.D. PREDIGER
- D410** GIRK2, DCC and PITX3 protein localisation in human midbrain dopamine neurons  
S. REYES, K. DOUBLE, L. THOMPSON, D. KIRIK, H. COOPER & G. HALLIDAY
- D411** Role of nociceptin/orphanin system in paraquat and maneb animal model of Parkinson's disease  
S.D.C. BASTIAS CANDIA, M. DI BENEDETTO, S. CANDELETTI & P. ROMUALDI
- D412** Pathogenetic mechanisms of familial Parkinson's disease: wt and A30P  $\alpha$ -synucleins affect the structure of microfilaments - a FRET study  
G. RONZITTI, F. DIFATO, A. BLAU & E. CHIEREGATTI
- D413** Effects of *schinus terebinthifolius Raddi*, on behavioral test, in a rotenone model of Parkinson's disease in rats  
A. SERENIKI, C. MEDEIROS-LINARD & S.S. LOPES
- D414** Hypoxic signaling in exercise-induced neuroprotection  
M. SMEYNE & R.J. SMEYNE
- D415** Behavioral effects of DBS therapy in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) marmoset model of Parkinson's disease: preliminary results  
A. YOON CHOI, L.P.N. DA SILVA, S.M. CININI, F.R. CABRAL, A.C.M. CRUZ- JR., E. AMARO-JR. & L.E. MELLO
- D416** Abnormal physiological responses and delayed axonal regeneration following nerve crush in mice overexpressing normal or ALS-linked TDP-43  
J.-N. AUDET, V. SWARUP & J.-P. JULIEN
- D417** Motor neuron hyper-excitability in a mouse model of amyotrophic lateral sclerosis is associated with significant changes in motor neuron morphology and dye-coupling  
M.C. BELLINGHAM, R. KANJHAN, M. FOGARTY & P.G. NOAKES
- D418** Site-specific excitotoxicity and axonal degeneration in amyotrophic lateral sclerosis  
C.A. BLIZZARD, K.A. HOSIE, A.E. KING & T.C. DICKSON
- D419** A prolonged pharmacological blockade of type-5 metabotropic glutamate receptors protects cultured spinal cord motor neurons against excitotoxic death  
S. D'ANTONI, A. BERRETTA, G. SEMINARA, P. LONGONE, A.M. GIUFFRIDA-STELLA, G. BATTAGLIA, M.A. SORTINO, F. NICOLETTI & M.V. CATANIA



## POSTER PRESENTATION

- D420** ALS-CSF induced Ultrastructural changes in NSC-34 cells (an *in vitro* model of ALS)  
S. GHOSH, B.K. CHANDRASEKHAR SAGAR, P.A. ALLADI & T.R. RAJU
- D421** Mutant human TDP-43 overexpression in mice leads to a dose-dependent ALS motor neuron phenotype  
J. JANSSENS, H. WILS, G. KLEINBERGER, G. JORIS, I. CUIJT, S. KUMAR-SINGH & C. VAN BROECKHOVEN
- D422** Dynactin p150<sup>GluE</sup> characterization and its interaction with tubulin binding cofactor B (TBCB)  
G.F. KUH, M. MEYER-OHLENDORF, M. STOCKMANN, L. LINTA, C. PROEPPER, A.C. LUDOLPH, S. LIEBAU, T.M. BOECKERS & J. BOCKMANN
- D423** A possible role of neuregulin 1 in synapse maintenance in ALS  
J. LASIENE, B.E. JACOBSON POWERS, P.J. HORNER & K. YAMANAKA
- D424** Motor behavior tests to detect early symptoms in a mouse ALS model  
V. VALSECCHI, M. BOIDO, G. SPIGOLON, A. PIRAS & A. VERCELLI
- D425** Novel therapeutic approach to prevent degeneration linked to protein aggregation in rat spinal cord neuronal cultures: enhancing 26S proteasome activity, p62/sequestosome1 levels and survival with cAMP  
N. MYEKU & M. FIGUEIREDO-PEREIRA
- D426** Melatonin protects against toxicity caused by expanded CAG repeats expression in a cell line model of Huntington's disease by restoring ubiquitin proteasomal pathway and mitochondrial integrity  
J. CHAKRABORTY, K.P. MOHANAKUMAR, N.R. JANA & R. USHA
- D427** The PPAR $\gamma$  rescues the mitochondrial dysfunction in cortex of Huntington disease  
M.-C. CHIANG, Y. CHERN & R.-N. HUANG
- D428** Modulation of striatal inhibitory synapses in neural degeneration  
E. HERNÁNDEZ-ECHEGARAY, E. NIETO-MENDOZA & A. RUELAS
- D429** Lycopene reverses biochemical and behavioral alterations in 3-nitropropionic acid induced Huntington's disease  
A. MEHROTRA & R. SANDHIR
- D430** Effect of JAK2 inhibition on neuronal death, gliosis and neurogenesis in the striatum of adult mice after unilateral injection of quinolinic acid, an experimental model of Huntington's disease  
R.S. IGNARRO, A.S. VIEIRA, C.R. SARTORI, F. LANGONE, C.A. PARADA & F. ROGERIO
- D431** Attenuation of proinflammatory cytokines and apoptotic process by verapamil and diltiazem against quinolinic acid induced Huntington like alterations in rats  
H. KALONIA & A. KUMAR
- D432** Protective effect of resveratrol on 3NP induced Huntington's disease rat model  
T.-K. LIN, S.-D. CHEN, C.-W. LIOU & Y.-C. CHUANG
- D433** Altered synapsin 1 and GluR1 immunoreactivity in the hippocampus of YAC128 Huntington's disease mice  
W.-S. LOH, J. MONTGOMERY & A.L. MCGREGOR
- D434** Targeting the UPR transcription factor XBP1 protects against experimental Huntington's disease by enhancing mutant Huntington clearance by autophagy  
R.L. VIDAL, A. FIGUEROA, F.A. COURT, P. THIELEN, C. WIRTH, A.M. CUERVO, L.H. GLIMCHER & C. HETZ
- D435** Role of p53 and Bcl-2 in neurotoxicity mediated by mitochondrial dysfunction induced with 3-Nitropropionic Acid (3-NP)  
X. ZHANG & Z. QIN
- D436** Development of a novel model for polyglutamine pathogenesis using the chicken embryo  
H. NAKAYAMA, M. SHIBATA, K. ITO, O. UEMURA, H. OKAMOTO & N. SATO
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- 16. Neurological disorders (Ischemia, hypoxia & neurotoxicity)**
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- D437** Molecular indicators of cognition deficit in cerebral stroke patients  
E.I. ELISTRATOVA, M.A. GRUDEN, V.V. SHERSTNEV & V.I. SKVORTZOVA
- D438** Genistein and daidzein have neuroprotective effects through ligand-binding-independent PPAR $\gamma$  activation  
O. HURTADO, I. BALLESTEROS, M.I. CUARTERO, M. TORRES, J. SÁNCHEZ-PRieto, M. CASTELLÓ-RUIZ, M.C. BURGUETE, E. ALBORCH, I. LIZASOAIN & M.A. MORO
- D439** Experimentally induced embolic stroke in rats: a novel quantification method of blood-brain barrier damage and histochemical characterization of affected tissue  
W. HÄRTIG, J. GROSCHE, J. PELZ, D. SCHNEIDER, C. WEISE, U. BAUER, J. KACZA, U. GÄRTNER, C. HOBOHM & D. MICHALSKI
- D440** Changes in GABA<sub>A</sub> receptor expression in *in-vitro* brain ischemia  
M. MELE & C.B. DUARTE
- D441** Role of Ca<sup>2+</sup>-Permeable AMPA Receptors in ischemia: characterization of the OGD-induced cell death and genetic expression profile of the ischemic response  
J. FERNANDES, M. VIEIRA, C. DUARTE, A.L. CARVALHO & A. SANTOS

- D442** Coupling of Ca<sup>2+</sup>-permeable AMPA receptors to the JNK and p38 signalling pathways: implications for cerebral global ischemia  
M. VIEIRA, J. FERNANDES, A. BURGEIRO, C. DUARTE, A.L. CARVALHO & A. SANTOS
- D443** Neuroprotective action of mildronate, an inhibitor of L-carnitine biosynthesis, after acute and chronic administration in rats  
B. SVALBE, L. ZVEJNIECE, S. GRINBERGA, E. LIEPINSH & M. DAMBROVA
- D444** Dysregulation of the transcriptional hypoxic response in CSB-deficient neural cells  
C. GLON, M. MAJORA, T. SCHREIBER, E. FRITSCHKE, S. FRANKE, M. SCHNEIDER & J. KRUTMANN
- D445** In vitro effect of methionine and/or methionine sulphoxide on oxidative stress parameters in cerebral cortex of young rats  
F.M. STEFANELLO, T.M. DA SILVA, E.B. SCHERER, F. SCHMITZ & A.T. WYSE
- D446** Antioxidant-nanocarrier attenuates intracerebral hemorrhage induced by focused ultrasound  
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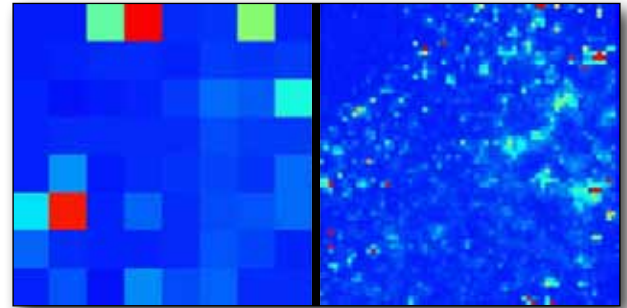
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