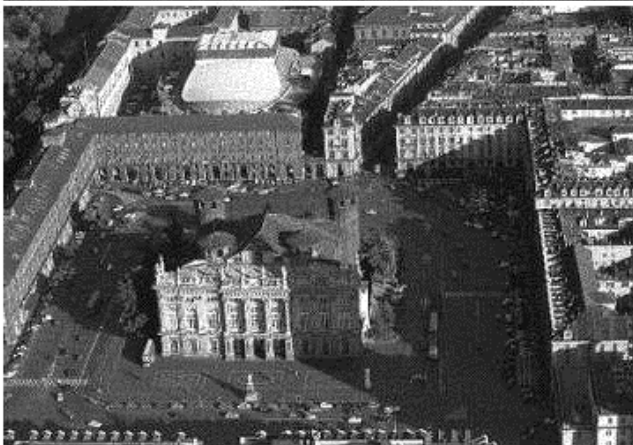


# **INTERNATIONAL MEETING STEROIDS AND NERVOUS SYSTEM**



**TORINO, Italy  
Villa Gualino  
February 11 - 14, 2001**

## **PROGRAM**

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## COMMITTEES

### **Organizers**

Roberto C. Melcangi (Milano, Italy)  
GianCarlo Panzica (Torino, Italy)

### **International Scientific Committee**

Jacques Balthazart	Belgium
Luis M. García-Segura	Spain
Roberto C. Melcangi	Italy
GianCarlo Panzica	Italy
Phyllis Wise	USA

### **Local Organizing Committee**

Aldo Fasolo  
Mariarita Galbiati  
Roberto C. Melcangi  
GianCarlo Panzica  
Carla Viglietti Panzica

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## MEETING SECRETARIAT

Prof. GianCarlo Panzica  
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## MEETING WEBSITE

<http://medicina.medfarm.unito.it/dipart/dafml/gcp/info/>

## MEETING LOCATION

Villa Gualino  
viale Settimio Severo 63  
I-10133 TORINO  
Telephone +39-0116603555 Fax +39-0116603535  
e-mail: htlgualin@tin.it

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## SPONSORS

Università degli Studi di Torino  
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Centro Rita Levi Montalcini, Torino  
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Nikon Instruments, Italy  
Vinci-Biochem, Italy  
Celbio, Italy  
AstraZenica, Italy  
Sanofi-Synthelabo, Italy

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## TOPICS OF THE CONFERENCE

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The international meeting on *Steroids and Nervous System* is organized to update our knowledge on the relationships among steroid hormones synthesized in different organs (including brain) and central as well as peripheral nervous system.

This is a wide research field covering different areas from molecular biology to behavior. This year the conference is focussed on five main topics:

- **Synthesis and metabolism of steroids within the brain**
- **Neuroendocrine control**
- **Action mechanisms**
- **Aging, stress and degenerative effects**
- **Neuroprotection**

To cover these topics the conference is organized in different symposia and posters' presentation. Each symposia will run for half day and will comprise invited lectures and additional short communications (selected by the Organizing Committee) to complete the program.

A free communications' session and three posters' session have been organized to cover other aspects related to the interactions among steroid hormones and the nervous system.

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## CONFERENCE DESK

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A conference desk will be opened at Villa Gualino throughout the conference within the following timetable:

- |             |    |      |       |
|-------------|----|------|-------|
| • Sunday    | 11 | 9.00 | 18.00 |
| • Monday    | 12 | 8.30 | 18.30 |
| • Tuesday   | 13 | 8.30 | 18.30 |
| • Wednesday | 14 | 8.30 | 14.30 |

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## PRESENTATION OF CONTRIBUTIONS

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### Poster Presentation

Posters will be on display during the entire conference from Monday to Wednesday at 15.00. Boards for posters will be available also on Sunday for those willing to show immediately their poster. The posters will be exhibited during the lunch time; the authors will be requested to be present at least one hour at the poster board (14.00-15.00), according to the schedule reported in the program. **Size of poster boards is 90 cm horizontal by 200 cm vertical.** Posters will have to be mounted with sticky tape. Material for the mounting will be provided by the Congress staff during the set-up of the posters.

### Short Oral Communication

Oral communications of 15 min (10 min presentation + 5 min discussion) concerning the main topics of the conference or directly related topics will be allowed. A slide projector (5 x 5 cm) and an overhead projector will be available for all presentations. If you require computer projection or traditional movies projection please contact the meeting organizers in advance. For computer presentation the best is the use of a personal notebook.

### Invited lectures

The program is also including a list of invited lectures (25 min presentation + 5 min discussion). As is the case for the contributed oral communications, a slide projector (5x5 cm) or an overhead projector will be available for these presentations. If you require computer projection or traditional movies projection please contact the meeting organizers in advance. For computer presentation the best is the use of a personal notebook.

Speakers should give their slides to the projectionist at least 15 min. before the starting time of their symposium. A slide viewer will be available in a separate place.

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## SOCIAL ACTIVITIES

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### Lunches

Meals tickets are sold at the Villa Gualino desk (20,000 It.Lire). The tickets are necessary to obtain a full meal at the self-service restaurant of Villa Gualino. If you have not purchased the tickets with the registration fees, you should buy them in advance at Villa Gualino desk (they are not sold at the registration desk during the conference) the same day in which you have the meal (during the coffee break). If you have a room in Villa Gualino you may charge the price of tickets to your room's bill.

### Dinners

In the evening, the city of Torino offers a wide variety of restaurants serving excellent italian food and other international "cuisines". You will be on your own for this selection but you will find detailed informations about locations and prices at the conference desk. The Villa Gualino self-service restaurant is also open for dinner, but again you have to buy your meal tickets in advance.

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## SOCIAL EVENTS

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**Sunday, February 11, 18.30** A welcoming reception will take place at Villa Gualino. Drinks and snacks will be provided.

**Tuesday, February 13, 20.30** The social dinner will be organized in a restaurant in Moncalieri (a village close to Torino). The price for this dinner is not included in the registration fees and will be 85.000 Lit. (about 23 US\$). Tickets will be available at the conference desk only for those who have payed (or booked) it in advance.

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**SUNDAY, 11th February 2001**

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**09.00 - 15.00: Registration at Villa Gualino**

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**15.30 - 17.30**

**Symposium: Biosynthesis**

**(Chairs: Melcangi R.C., Milano & Wise P.M., Lexington)**

- 15.30 Mellon S.H.** (University of California, CA, USA), Griffin L.D. and Compagnone N.A. - *Biosynthesis and Action of Neurosteroids.*
- 16.00 Mensah-Nyagan A.G.** (Univ. Rouen, Mont-Saint-Aignan, France), Do-Régo J.L., Beaujean D., Tonon M.C., Luu-The V., Pelletier G. and Vaudry H. - *Biochemical pathways and regulation of neurosteroid biosynthesis in amphibians*
- 16.30 Lephart** (Brigham Young University, Utah, USA), - *Brain Androgen and Progesterone Metabolizing Enzymes: Biosynthesis, Distribution and Function.*
- 17.00 Balthazart J.** (University of Liège, Belgium), Absil P., Baillien M., Ball G.F. and Panzica G.C. - *Control of preoptic aromatase activity by afferent inputs in Japanese quail*
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**18.30-20.00**

***Welcoming Reception***

## MONDAY, 12th February

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9.00 - 13.00

### Symposium: Action Mechanisms (I)

(Chairs: Guidotti A., Chicago & Maggi A., Milano)

- 09.00 Rupprecht R.** (Ludwig Maximilian University, Munich, Germany), Hermann B., Lancel M., Ströhle A., Romeo E. and Holsboer F. - *Neuroactive Steroids: Molecular Mechanisms of Action and Implications for Neuropsychopharmacology.*
- 09.30 Lambert J.J.** (University of Dundee, Scotland, U.K), Belelli D., Callachan H., Harney S.A., Frenguelli B. and Peters J.A. - *The Interaction of Neurosteroids with Recombinant and Synaptic GABA<sub>A</sub> Receptors.*
- 10.00 Biggio G.** (University of Cagliari, Italy), Follesa P., Mostallino M.C., Sanna E., Purdy R. H. and Concas A. - *GABA<sub>A</sub> Receptor Plasticity During Lon-Term Exposure to and Withdrawal from Progesterone.*

10.30 coffee break

- 11.00 Ramirez V.D.** (University of Illinois, IL, USA), Liu J. and Joe I. - *Estradiol Targets Several Physiologically Relevant Membrane-Associated Proteins in the CNS.*
- 11.30 Dorsa D.** (University of Washington, Seattle, WA, USA), Wade C., Linford N., Fitzpatrick J., Mhyre D. and Shapiro R. - *Understanding the Rapid, Membrane-Based Effects of Estrogen.*
- 12.00 Puia G.** (University of Modena, Italy), Mienville J.-M., Costa E. and Guidotti A. - *The decrease in allopregnenolone content in mice brain correlate with a change in the GABA<sub>A</sub> receptor sensitivity to agonist.*
- 12.15 Belelli D.** (University of Dundee, Scotland, U.K.) - *Differential sensitivity of GABA<sub>A</sub> - mediated synaptic neurotransmission to endogenous and synthetic neuroactive steroids.*
- 12.30 Eva C.** (University of Torino, Italy), Oberto A., Serra M., Pisu M.G., Panzica G.C., Biggio G. - *Chronic treatment with progesterone or allopregnanolone increases NPY-Y<sub>1</sub> receptor gene expression in the medial amygdala of transgenic mice.*
- 12.45 Baulieu E.E.** (Inserm U488, le Kremlin-Bicetre Cedex, France) - *Microtubules are target of neurosteroids: a new mode of action.*
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13.00 - 15.00

**Lunch time & Posters' exhibition (Themes 1 and 2)**

**MONDAY, 12th February**

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**15.00 - 18.00**

**Symposium: Action Mechanisms (II)**

**(Chairs: Balthazart J., Liège & Panzica G.C., Torino)**

- 15.00 Farb D.H.** (University School of Medicine, Boston, MA, USA), Gibbs T.T., Russek S.J., Pierce C. and Johnson D.W. - *Balancing Excitation and Inhibition in the Brain: Neurosteroids as Functional Modulators of Glutamate Receptors*
- 15.30 Morrow A.L.** (University of North Carolina School of Medicine, NC, USA), VanDoren M. J., Penland S. and Grobin A. C. - *Ethanol and Neurosteroid Interactions.*
- 16.00 Maurice T.** (Inserm U336, Institut de Biologie, Montpellier, France), Phan V.-L., Urani A. and Romieu P. - *The Interaction Between Neuroactive Steroids and the Sigma<sub>1</sub> ( $\sigma_1$ ) Receptor Function: Behavioural Consequences and Therapeutic Opportunities.*

**16.30 coffee break**

- 17.00 Purdy R.H.** (The Scripps Research Institute, California, CA, USA) Britton K.T, Koob. G.F. Evers A.S., Zorumski C.F. and Covey, D.F - *Recent developments in the chemistry and pharmacology of neuroactive steroids.*
- 17.15 Di Paolo T.** (Laval University Medical Center, Québec., Canada) Cyr, M., Thibault C., Landry M. and Morissette M. - *Ovarian steroids and selective estrogen receptor modulators activity on rat brain AMPA and NMDA receptors.*
- 17.30 Serra M.** (University of Cagliari, Italy), Pisu M.G., Parodo V. and Biggio G - *Lithium chloride selectively elevates neuroactive steroid contents in the rat brain.*
- 17.45 Rosellini R. A.** (The University at Albany-SUNY, NY, USA), Svare B., Rhodes M.E. and Frye C. A. - *The testosterone metabolite and neurosteroid 3 $\alpha$ -androstenediol mediates the effects of testosterone on conditioned place preference.*
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## **TUESDAY, 13th February**

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### **9.00 - 13.00                      Symposium: Neuroendocrine Control**

**(Chairs: Garcia-Segura L.M., Madrid & Martini L., Milano)**

- 09.00    Herbison A.E.** (The Babraham Institute, Cambridge, UK) - *Gonadal Steroid Regulation of GnRH Neurons.*
- 09.30    Melcangi R.C.** (University of Milano, Italy), Cavarretta I., Magnaghi V., Martini L. and Galbiati M. - *Interactions Between Growth Factors and Steroids in the Control of LHRH Neurons.*
- 10.00    Gore A.C.** (Mount Sinai School of Medicine, New York, NY, USA). - *GnRH neurons, NMDA receptors, and their regulation by steroid hormones across the reproductive life cycle*
- 10.30    Frye C.A.** (The University at Albany-SUNY, NY, USA) - *Neurosteroids in the ventral tegmental area mediate sexual receptivity of rodents*

#### **11.00 coffee break**

- 11.30    Gerendai I.** (Semmelweis University Budapest, Hungary) - *Nervous system structures transneuronally connected with the gonads.*
- 11.45    El-Etr M.** (Inserm U488, Le Kremlin-Bicetre, France), Akwa Y., Baulieu E.E. and Schumacher M. - *Rapid modulation of GnRH release by neurosteroids in GT1 neurons.*
- 12.00    Bakker J.** (University of Liège, Belgium). and Baum M.J. - *Neuroendocrine regulation of GnRH release in an induced ovulator, the ferret.*
- 12.15    Guerriero G.** ("Federico II" University, Napoli, Italy) and Ciarcia G. - *Seasonal fluctuations of progesterone receptor in the hypothalamus of the female frog, Rana esculenta.*
- 12.30    Panzica G.C.** (University of Torino, Italy), Viglietti-Panzica C. and Balthazart J. - *Differential effects of testosterone metabolites on vasotocin immunoreactivity in adult male quail.*
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### **13.00 - 15.15**

**Lunch time & Posters' exhibition (Themes 3 and 0)**

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**TUESDAY, 13th February**

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**15.15 - 18.00**

**Free Themes**

**(Chairs: Fasolo A., Torino & Panzica G.C., Torino)**

- 15.15** **Guidotti A.** (University of Illinois, Chicago, IL, USA) and Costa E. - *Putative role of allopregnenolone and 5 $\alpha$ -DHP in psychiatric disorders.*
- 15.30** **Masera R.G.** (University of Torino, Italy), Dovio A., Prolo P., Sartori M.L., Chiappelli F. and Angeli A. - *Serum DHEA and in vitro natural killer cell activity correlate with mental deterioration in precocious Alzheimer's disease.*
- 15.45** Jalali C. and **de Lacalle S.** (California State University, Los Angeles, CA, USA) - *Neurotrophic effects of estrogen on the cholinergic basal forebrain.*
- 16.00** Marletta N., Cormaci G., Licciardello D., Spina-Purrello V., Marchetti B. and **Avola R.** (University of Catania, Italy) - *Effects of steroids and growth factors on cytoskeletal protein expression during astroglial cell differentiation in culture.*
- 16.15** **Samuel D.** (Weizmann Institute of Science, Israel) - *Cholesterol, synaptic membrane structure, aging associated memory loss and addiction.*

**16.30 coffee break**

- 17.00** **Dygalo N.N.** (Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia), Kalinina T.S. and Shishkina G.T. - *Regulation of alpha2A-adrenergic receptor expression in the rat brain by testosterone.*
- 17.15** **Kaiser S.** (University of Muenster, Münster, Germany), Kruijver F.P.M. Sachser N. and Swaab D.F. - *Prenatal social stress in Guinea Pigs: sex-specific and sex-reversed effects on hormones, brain and behavior.*
- 17.30** **Rhodes M.E.** (The University at Albany-SUNY, NY, USA). and Frye C.A. - *Inhibiting progesterone metabolism in the hippocampus alters aversion to noxious stimuli, exploratory, motor, and anxiolytic behaviors of proestrous rats.*
- 17.45** **Kruijver F.P.M.** (Netherlands Institute for Brain Research, Amsterdam, The Netherlands), and Swaab D. F. - *Sex hormone receptors in the human hypothalamus in relation to gender, sexual orientation, transsexuality and endocrine status.*
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**20.30 Social Dinner**

**Ristorante Ca' Mia, strada Revigliasco 138, Moncalieri**

## WEDNESDAY, 14th February

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**9.00 - 13.00**

### ***Symposium: Aging, Stress, and Degenerative Effects***

**(Chairs: Balthazart J., Liège & Garcia-Segura L.M., Madrid)**

- 09.00** **Nichols N.R.** (Monash University, Melbourne, Australia), Zieba G., Wreford N.G. and Bye N. - *Do Glucocorticoids Contribute to Brain Aging?*
- 09.30** **Riva M.A.** (University of Milano, Italy), Roceri M., Molteni R., Magnaghi V., Melcangi R.C., Hendriks W., Ellenbroek B.A. and Racagni G. - *Stress during Brain Development: Effects on Neurotrophic Factor Expression and Brain Plasticity.*
- 10.00** **Wise P.M.** (University of Kentucky, KY, U.S.A.), Dubal D.B., Wilson M.E., Rau S.W., Bottner M. and Rosewell K.L. - *Estradiol is a Protective Factor in the Adult and Aging Brain: Understanding of Mechanisms Derived From in Vivo and in Vitro Studies.*

**10.30 coffee break**

- 11.00** **Marchetti B.** (University of Sassari, Italy), Morale M.C., Tirolo C., Testa N., Caniglia S., Barden N., Amor S. and Dijkstra C.D. - *Stress, the immune system and vulnerability to degenerative disorders of the central nervous system*
- 11.30** **Vallée M.** (INSERM U259, Bordeaux, FRANCE) - *Neurosteroids and Cognitive Aging.*
- 12.00** **Racchi M.** (University of Pavia, Italy), Govoni S., Solerte S.B., Galli C.L. and Corsini E. - *Dehydroepiandrosterone and the relationship with aging and memory: a possible link with protein kinase C functional machinery.*
- 12.15** **Ferrari E.** (University of Pavia, Italy), Casarotti D., Muzzoni B, Albertelli N, Cravello L., Fioravanti M., Solerte S.B. and Magri F. - *Age-related changes of the adrenal secretory pattern: possible role in pathological brain aging.*

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**13.00 - 15.00**

***Lunch time & Posters' exhibition (Themes 4 and 5)***

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**WEDNESDAY, 14th February**

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**15.00 - 18.00**

***Symposium: Neuroprotection***

**(Chairs: Melcangi R.C., Milano & Wise P.M., Lexington)**

- 15.00 Schumacher M.** (INSERM U488, Bicêtre, France), Guennoun R., Mercier G., Turque N., Coirini H., Benmessahel Y., Robert F., Gago N., El-Etr M., Labombarda F., De Nicola A. and Baulieu E.E. - *Progesterone: Regeneration of the Nervous System.*
- 15.30 Magnaghi V.** (University of Milano, Italy), Cavarretta I., Galbiati M., Martini L. and Melcangi R.C. - *Neuroactive Steroids and Peripheral Myelin Proteins.*
- 16.00 Jones K.J.** (Loyola University, Illinois, USA) - *Neuroprotective Effects of Gonadal Steroids on Regenerating Peripheral Motoneurons.*
- 16.30 Cardona-Gómez G.P., Mendez P., DonCarlos L.L., Azcoitia I. and Garcia-Segura L.M.** (Instituto Cajal, Madrid, Spain) *Neuroprotection by Estrogen: Interactions with Insulin-Like Growth Factor-I Receptors.*
- 17.00 Maggi A.** (University of Milano, Italy) - *Mechanisms of oestrogen protective activity in neural cells.*
- 17.15 Brignardello E.** (University of Torino, Italy), Aragno M., Parola S., Betteto S., Manti R., Danni O. and Boccuzzi G. - *Effects of dehydroepiandrosterone on oxidative damage induced by ischemia/reperfusion in synaptosomes of normal and diabetic rats*
- 17.30 Marín R.** (University of La Laguna, Tenerife, Spain), Guerra B., Hernández-Jiménez J.G., Martínez-Morales J.R., Reyes R., Bello A.R., López-Coviella I. and Alonso R. - *Estrogen receptor alpha is up-regulated after heat shock in a neuronal-derived cell line co-expressing acetylcholine and LHRH.*
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**18.00**

**Closure of the meeting**

12 - 14th February

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13.00 - 15.00

Poster exhibition

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### **Biosynthesis (1)**

- **(1-1) Baillien M.** (University of Liège, Belgium) and Balthazart J. - *Rapid control of brain aromatase activity by protein kinases and phosphatases.*
- **(1-2) Choi W.S.** (Gyeongsang National University, Korea), Kim H.J., Park C.H. and Kang S.S. - *A new insight into brain steroidogenesis: putative function of steroidogenic acute regulatory protein (StAR).*
- **(1-3) Finn D.A.** (Oregon Health Sciences University, USA), Wiren K.M. and Roselli C.R. - *Chronic ethanol exposure and withdrawal alters 5 $\alpha$ -reductase-1 enzyme activity and gene expression in two animal models of ethanol withdrawal severity.*
- **(1-4) Gago N.** (INSERM U488, Bicêtre Cédex, France), Sananès N., Akwa Y., Guennoun R., El-Etr M., and Schumacher M. - *Biosynthesis and metabolism of progesterone at different stages of the oligodendroglial lineage.*
- **(1-5) Soma K.K.** (UCLA, Los Angeles, CA, USA), Freking F.W. and Schlinger B.A. - *Behavioral and neuroanatomical effects of neurosteroids in songbirds.*

### **Action mechanisms (2)**

- **(2-1) Cambiasso M.J.** (University of Ulm, Germany), Brito V.I. and Carrer H.F. - *Estradiol stimulates in vitro axon growth in male rat hypothalamic neurons via a cross-coupling *trkB* signaling pathway.*
- **(2-2) Capasso A.** (Università of Salerno, Italy) and Loizzo A. - *Animal models to study interference of dexamethasone on the central nervous system effects of morphine.*
- **(2-3) Matagne V.J.** (University of Liège, Belgium), Lebrethon M-C. R., Gerard A. L. and Bourguignon J-P. - *Non genomic effects of estradiol on glutamate-induced GnRH secretory response.*
- **(2-4) Sinnott R.S.** (Oregon Health Sciences University, USA) and Finn D.A. - *Oral self-administration of the neurosteroid allopregnanolone in rats.*
- **(2-5) Smock T.** (University of Colorado, USA) - *A peptidergic basis for sexual behavior in mammals.*

### **Neuroendocrine control (3)**

- **(3-1) Dorling A.A.** (The Babraham Institute, Cambridge, U.K.) and Herbison A.E. - *Does estrogen exert a positive feedback effect on GnRH gene expression in the mouse brain?*
- **(3-2) Frye C.A.** (The University at Albany-SUNY, USA), Walf A. A., Rhodes M.E. and Harney J.P. - *Progesterone administration alters motor, social, affective, cognitive, and ictal behaviors in female 5 $\alpha$ -reductase knockout mice.*
- **(3-3) Johansson I-M.** (Umeå University, Sweden), Birzniece V., Wang M-D., Bäckström T. and Olsson T. - *Chronic gonadal hormone manipulation in female rats differently influences hippocampal mRNA expression of 5HT<sub>1A</sub> and glucocorticoid receptors.*
- **(3-4) Quesada A.** (Albert Einstein College of Medicine, NY, USA) and Etgen A.M. - *IGF-1 receptor is required for estradiol induced expression of  $\alpha_{1B}$ -AR in the preoptic area and hypothalamus of female rats.*
- **(3-5) Todman M.G.** (The Babraham Institute, Cambridge, U.K.), Gant T.W. and Herbison A.E. - *A microarray analysis of estrogen regulated genes in the mouse brain.*
- **(3-6) Walf A.A.** (The University at Albany-SUNY, USA), Rhodes M.E., Harney J.P. and Frye C.A. - *Testosterone administration alters motor, exploratory, nociception, aggression, cognitive performance, and ictal activity in male 5 $\alpha$ -reductase knockout mice.*

### **Aging, stress and degenerative effects (4)**

- **(4-1) Karishma K.K.** (University of Cambridge, U.K.) and Herbert J. - *Steroids and neurogenesis in the adult rat hippocampus.*
- **(4-2) Pansarasa O., D'Antona G., Gualea M.R. and Marzatico F.** (University of Pavia, Italy) - *Effects of HPG axis alterations on brain glutathione levels during aging.*
- **(4-3) Sánchez A.I.** (Complutense University, Madrid, Spain), Gamallo A., Ávila G. and De la Fuente M. - *Behavioural study in mice exposed to chronic stress by treadmill exercise.*

## **Neuroprotection (5)**

- **(5-1) Cavarretta I.** (University of Milano, Italy), Magnaghi V. , Ciusani E. , Salmaggi A. and Melcangi R.C. - *Corticosteroids protect in vitro the oligodendrocytes from the cell death induced by cytokines.*
- **(5-2) Muscatiello N.** (The University at Albany-Suny, NY, USA), McCormick C.M., and Frye C. A. - *Testosterone metabolism along estrogenic and androgenic pathways may both be important for neuroprotection in an adrenalectomy model of neurodegeneration.*
- **(5-3) Vegeto E., Bonincontro C.** (University of Milano, Italy), Ciana P. and Maggi A. - *Estrogen prevents the LPS-induced inflammatory response in microglia*

## **Clinical and behavioral studies (0)**

- **(0-1) Aste N.** (Fujita Health University School of Medicine, Japan), Honda S. and Harada N. - *Role of urine derived pheromonal stimuli in the activation of FOS immunoreactivity in the brain of aromatase knock out mice.*
- **(0-2) Birzniece V.** (Umeå University Hospital, Sweden), Johansson I.M., Lindblad C., Olsson T. and Bäckström T. - *Allopregnanolone affects learning in the Morris watermaze.*
- **(0-3) Dessì-Fulgheri F.** (University of Firenze, Italy), Aloisi A.M., Della Seta D., Porrini S. and Farabollini F. - *Perinatal administration of the xenoestrogen bisphenol a affects socio-sexual behaviour of the rat*
- **(0-4) Miguez P.V** (Open University, U.K.), Johnston A.N.B. and Rose S.P.R. - *Neurosteroid-induced memory facilitation in the day-old chick.*
- **(0-5) Militello A.** (University of Palermo, Italy), Vitello G., Lunetta C., Piccoli F. and La Bella V. - *Sex steroid hormone concentrations in amyotrophic lateral sclerosis.*
- **(0-6) Ödmark I.-S.** (Wyeth Lederle, Sweden), Lyrenäs S., Olsson S-E., Jörstad L., Heimer G., Elowsson P. and Nilsson L-G. - *Effects on cognitive function in postmenopausal women treated with estrogen (Premarin) or placebo.*
- **(0-7) Petralia S.M.** (The University at Albany-SUNY, USA) and Frye C.A. - *MK-801 infused into the ventral tegmental area of rats enhances progesterone-facilitated lordosis.*
- **(0-8) Ross L.E.** (Sunnybrook and Women's College Health Sciences Centre, Canada), Zhang W., Kaplan H.L., Purdy R.H., Sellers E.M. and Romach M.K. - *Altered enzyme activity and progesterone metabolite concentrations in pregnancy and postpartum: a potential contributor to depressed mood.*
- **(0-9) Verzé L.** (University. of Torino, Italy), Viglietti-Panzica C., Franchina L., Rissman E.F. and Panzica G.C. - *The NOS immunoreactive system is modified in the hypothalamus of estrogen receptor  $\alpha$  knock out male mice.*

## **ADDRESSES**

### **INTERNATIONAL SCIENTIFIC COMMITTEE**

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