4th International meeting on
STEROIDS AND NERVOUS SYSTEM

ORGANIZERS
Roberto C. Melcangi (Milano)
GianCarlo Panzica (Torino)

INTERNATIONAL COMMITTEE
Jacques Balthazart (Belgium)
Luis Miguel Garcia-Segura (Spain)
Allan Herbison (New Zealand)
Margaret McCarthy (USA)
Roberto C.Melcangi (Italy)
GianCarlo Panzica (Italy)

EDUCATIONAL COMMITTEE
Cheryl Frye (USA)
February 18

9-11 Registration

11.30 Opening ceremony

12-13 Lecture

Herbison AE (New Zealand) Multiple mechanisms of estrogen action upon GnRH neurons

15-18 EFFECTS MEDIATED BY CLASSICAL STEROID RECEPTORS

- Morrison JH (USA) Estrogen and synaptic plasticity in cerebral cortex: implications for cognitive aging
- Smith J (Australia) Steroid regulation of kisspeptin-gpr54 signalling in the brain
- Bass AH (USA) Steroid-dependent modulation of vocal motor systems
- Levine JE (USA) Novel roles for neuronal progesterone receptors
- Handa RJ (USA) Estrogen receptor beta in the brain: from form to function

21-23 Round Table
February 19

9-12  NEUROGENESIS

- Galea L (Canada) Gonadal hormone regulation of adult hippocampal neurogenesis
- Wang Z (USA) Estrogen, amygdala, and adult neurogenesis
- Brinton RD (USA) Allopregnanolone regulation of proliferation of human neural stem cells and neurogenesis in triple transgenic Alzheimer's disease mice
- Abrous N (France) Neurogenesis and age-related-cognitive functions: implication of steroids
- Herbert J (UK) Control of neurogenesis in the adult hippocampus by corticoids and serotonin

12-13 Lecture
Mellon SH (USA) Neurosteroids in health and disease

13-15 Posters’ exhibition

15-18 NEUROPROTECTIVE EFFECTS

- Simpkins JW (USA) Mitochondrial mechanisms of estrogen neuroprotection
- Pike CJ (USA) Androgens, neuroprotection, and Alzheimer’s disease
- Stein DG (USA) Progesterone in the treatment of traumatic brain injury and stroke: from the laboratory bench to the patient’s bedside
- Mensah-Nyagan AG (France) Neurosteroids and nociceptive sensitivity in neuropathic rats
- Melcangi RC (Italy) Neuroactive steroids and peripheral neuropathy

21 - Workshop (C.A. Frye)
International Opportunities for Young Researchers
February 20

8.30-10.30  **XENOESTROGENS AND BRAIN CIRCUITS**

- **Ottinger MA (USA)** Neuroendocrine and behavioral consequences of embryonic exposure to endocrine disrupting chemicals
- **Patisaul HB (USA)** Influence of endocrine active compounds in the developing brain
- **Maggi A (Italy)** In vivo analysis of xenoestrogens in ERE-Luc reporter mice
- **Kawato S (Japan)** Rapid action of endocrine disrupters in the hippocampus: a neurosteroid viewpoint

11-12  **Young investigators’ symposium**

12-15  **Posters’ discussion (wine and cheese)**

21 – **SOCIAL DINNER**
February 21

9-12  **EFFECTS MEDIATED BY MEMBRANE RECEPTORS**

- Micevych P (USA) Genomic and non-genomic estrogen signaling stimulates synthesis of neurosteroids.

- Belcher SM (USA) Integrated signaling mechanisms of estrogen in developing neurons and neuroectodermal derived tumors

- Guennoun R (France) The membrane-associated progesterone-binding protein 25-dx: expression, cellular localisation and up-regulation after brain and spinal cord injuries

- Valenzuela CF (USA) Modulation of glutamatergic synaptic transmission by neurosteroids

- Biggio G (Italy) Neurosteroid responses and GABAA receptor plasticity during chronic stress

12-13 Lecture:
Swaab D (Netherlands) The stress system in the human brain in depression and neurodegeneration.

13-15 Posters’ exhibition

15-18  **CORTICOSTEROID EFFECTS AND STRESS**

- Sousa N (Portugal) Corticosteroid receptors and neuroplasticity

- Pryce CR (Switzerland) Postnatal ontogeny of hippocampal expression of the mineralocorticoid and glucocorticoid receptors in the common marmoset monkey

- Gass P (Germany) Mice with genetically altered glucocorticoid receptor expression show altered sensitivity for stress-induced depressive reactions

- Matthews SG (Canada) Maternal adversity, glucocorticoids and programming of neuroendocrine function and behaviour.

- Darnaudery M (France) Long lasting effects of stress during pregnancy on HPA function and behaviour in mother and offspring rats.
Il giorno 17 saranno organizzati due simposi satellite:

**Satellite Symposium: SELECTIVE ESTROGEN RECEPTORS MODULATORS AND THE BRAIN**

**Satellite Symposium: NEW PERSPECTIVES IN THE DOSAGE OF NEUROACTIVE STEROIDS.**