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2nd Workshop “Chemokines and Chemokine Receptors in the Nervous System”



Rome, 24-25 October 2009

***Auditorium 1^a Clinica Medica
Policlinico Umberto I
V.le del Policlinico 159, Roma***

Participants

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Cristina LIMATOLA, University Sapienza, Rome, Italy
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Organizers

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October 24 (Saturday)

11:30-11:40 Welcome from the organizers

11:40 **Keynote Lecture**

Chair : Angela Santoni

11:45-12:25 **Alberto Mantovani** (Milan, Italy):
Chemokine-mediated perineural invasion and malignant behaviour.

1st Session : 12:30-16:05 Chemokines in CNS development and physiology

Chair: Cristina Limatola (Rome, Italy)

12:35-13:00 **Alice Guyon** (Valbonne, France):
Chemokine and the central regulation of food intake and metabolism.

13:05-13:30 **Marie-Catherine Tiveron** (Marseille, France):

Expression and function of CXCR7 in the brain

13:35-14:00 **Ralf Stumm** (Magdeburg, Germany):
Regulation, localization and function of the SDF-1 receptors CXCR4 and CXCR7.

14:05-15:05 **Lunch**

15:05-15:30 **Laura Maggi** (Rome, Italy):
Fractalkine/CX3CL1 modulates synaptic plasticity in the hippocampus.

15:35-16:00 **Knut Biber** (Freiburg, Germany):
Vesicles-based expression, transport and release of neuronal chemokines.

16:05-16:30 **Coffee Break**

2nd Session : 16:30-19:30 Chemokines in neuron-glia interaction

Chair: Jeffrey Harrison (Gainesville, USA)

16:40-17:05 **Paola Bezzi** (Lausanne, Switzerland):
Fast submembrane Ca²⁺ transient control CXCL12-evoked exocytosis.

17:10-17:35 **Davide Ragozzino** (Rome, Italy):
Effect of CX3CL1 on the properties of microglial cells in mouse hippocampus.

17:40-18:05 **Joshua Rubin** (St. Louis, MO):
CXCR4 mediates stromal promotion of brain.

18:10-18:30 **Coffee Break**

18:30-18:55 **Jason Millward** (Montreal, Canada):
The murine gammaherpesvirus-68 chemokine-binding protein M3 inhibits experimental autoimmune encephalomyelitis.

19:00-19:25 **Robin Klein** (St. Louis, MO):
Less is more: chemokines and chemokine receptors during West Nile virus encephalitis.

20:00 **Social Dinner**
(Casa dell'Aviatore, Viale dell'Università, 20)

October 25 (Sunday)

3th Session : 8:25-12:30 Leukocyte trafficking in the CNS

Chair: Marcus Thelen (Bellinzona, Switzerland)

8:30-8:55 **Mauro Teixeira** (Belo Horizonte, Brazil):
Intravital microscopy to examine mechanisms of leukocyte recruitment during sterile inflammation or infection of the brain.

9:00-9:25 **Paolo Fabene** (Verona, Italy):
Role of adhesion molecules and chemokines receptors in experimental epilepsy.

9:30-9:55 **Richard Ransohoff** (Cleveland, OH):
Chemokine receptors on mononuclear phagocytes: markers for microglia and CNS-infiltrating monocytes.

10:00-10:25 **Coffee Break**

10:30-10:55 **Tom Lane** (Irvine, CA):
The functional role of chemokine receptors in disease and repair in a viral-model of demyelination.

11:00-11:25 **Marco Prinz** (Freiburg, Germany):
Chemokine receptors and their role during CNS inflammation.

11:30-11:55 **Claudia Eder** (London, UK):
Do ion channel inhibitors represent potential therapeutic tools to reduce monocyte infiltration in brain diseases?

12:00-12:25 **Benjamin Segal** (Ann Arbor, MI):
Distinct pathways for CNS trafficking based on Th subset phenotype.

12:30-13:30 **Lunch**

4th Session : 13:30-15:50 Chemokines in neuropathologies

Chair: Francesca Aloisi (Rome, Italy)

13:35-14:00 **Olimpia Meucci** (Philadelphia, PA):
Alteration of neuronal CXCR4 function by opioids: role and implications for neuroAIDS.

14:05-14:30 **William Rostene** (Paris, France):
Chemokine regulation of dopaminergic systems: application to Parkinson's disease and addiction.

14:35-15:00 **Giovanni Bernardini** (Rome, Italy):
CX3CL1/CX3CR1 axis in the control of neuronal and immune responses.

Concluding Remarks: 15:05-15:20
Richard Ransohoff (Cleveland, OH)

15:25 **End of the works and Coffee**