July 7-13, 2012

NEUROINFLAMMATION IN CNS DISORDERS: PRIMING A TARGET FOR NEW THERAPIES

Catania
Coro di Notte
Ex Monastero dei Benedettini
Piazza Dante, 32
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Saturday July 7th, 2012

10.00-14.15  Registration

14.15-14.30  Opening remarks
Filippo Drago (Catania)

14.30-15.30  Opening lecture *(introduced by Filippo Drago)*
Cytokines in CNS physiology and pathology
Robert Dantzer (USA)

15.30-16.00  Welcome reception

**The interaction between CNS and immune system (1)**
*Introduced and moderated by Giorgio Racagni (Italy)*

16.00-17.00  Molecular basis of cytokine function
Konrad Schauenstein (Austria)

17.00-18.00  Astrocyte and T cell function
Francesca Aloisi (Italy)

18.00-18.30  Discussion

18.30-19.30  Immune proteins in synaptic plasticity
Marco Riva (Italy)

19.30-19.40  Questionnaire
Sunday July 8th, 2012

Stress and neuroimmune interactions  
*Introduced and moderated by Marco Riva (Italy)*

10.00-11.00  The stressed CNS: when glucocorticoids aggravate inflammation  
*Robert M. Sapolsky (USA)*

11.00-12.00  Brain stress systems in drug dependence and tolerance  
*Pier-Vincenzo Piazza (France)*

12.00-12.30  Discussion

12.30-13.30  Sponsored lecture

The interaction between CNS and immune system (2)  
*Introduced and moderated by Maria Angela Sortino (Italy)*

16.00-17.00  Immune influence on adult neural stem cell regulation and function  
*Maria Grazia Grilli (Italy)*

17.00-18.00  Microglia and neuroprotection: from *in vitro* studies to therapeutic applications  
*Barbara Monti (Italy)*

18.00-18.30  Discussion

18.30-19.30  Special Lecture: Immune activation in brain aging: too Much or too Little?  
*Claudio Franceschi (Italy)*

19.30-19.40  Questionnaire
Monday July 9th, 2012

**Fibromyalgia**  
*Introduced and moderated by Maria Grazia Grilli (Italy)*

10.00-11.00  
Neuroendocrine immunology of fibromyalgia  
*Riccardo Torta (Italy)*

11.00-12.00  
Fibromyalgia syndrome: from diagnosis to pharmacological treatment  
*PierCarlo Sarzi-Puttini (Italy)*

12.00-12.30  
Discussion

12.30-13.30  
Sponsored lecture

**Multiple Sclerosis**  
*Introduced and moderated by Pier Luigi Canonico (Italy)*

16.00-17.00  
The role of regulatory T cells in multiple sclerosis  
*Heinz Wiendl (Germany)*

17.00-18.00  
The link between inflammation, synaptic transmission and neurodegeneration in multiple sclerosis  
*Gianvito Martino (Italy)*

18.00-18.30  
Discussion

18.30-19.30  
Special Lecture:  
*Treatment of multiple sclerosis: current concepts and future perspectives*  
*Bernard Hemmer (Germany)*

19.30-19.40  
Questionnaire
Tuesday July 10th, 2012

**Stroke**

*Introduced and moderated by Salvatore Salomone (Italy)*

10.00-11.00  The role of immune system in the pathogenesis of ischemic stroke: identification of new pharmacological targets  
*Alberto Chiarugi (Italy)*

11.00-12.00  Neuroinflammation and cerebrovascular disease in old age: a translational medicine perspective  
*Mario Di Napoli (Italy)*

12.00-12.30  Discussion

12.30-13.30  Sponsored lecture

**Alzheimer’s disease**

*Introduced and moderated by Giancarlo Pepeu (Italy)*

16.00-17.00  Neuroinflammation: implications for the pathogenesis and molecular diagnosis of AD  
*Claudio Cuello (Canada)*

17.00-18.00  Passive immunotherapy in AD  
*Beka Solomon (Israel)*

18.00-18.30  Discussion

18.30-19.30  Special Lecture:  
Active immunization strategies in AD: where do we stand ? where should we go ?  
*Roger Nitsch (Switzerland)*

19.30-19.40  Questionnaire
**Wednesday July 11th, 2010**

**Neuroimmune interactions in neurodegenerative disorders**  
*Introduced and moderated by Renato Bernardini (Italy)*

10.00-11.00  Neuroinflammation in amyotrophic lateral sclerosis: new targets for the treatment?  
*Francesco Fornai (Italy)*

11.00-12.00  The neuropathology of HIV-associated dementia  
*Jeanne Bell (United Kingdom)*

12.00-12.30  Discussion

12.30-13.30  Sponsored lecture

**Parkinson’s disease**  
*Introduced and moderated by Claudio Cuello (Canada)*

16.00-17.00  Modeling neuroinflammatory pathogenesis of Parkinson's disease  
*Fabio Blandini (Italy)*

17.00-18.00  Cytokines and immunity in Parkinson's disease  
*Mario Zappia (Italy)*

18.00-18.30  Discussion

18.30-19.30  Special lecture:  
Neuroinflammation and the prospects for anti-inflammatory treatment of PD  
*Peter Whitton (United Kingdom)*

19.30-19.40  Questionnaire
Thursday July 12th, 2012

**Migraine**  
*Introduced and moderated by Mario Zappia (Italy)*

10.00-11.00  The role of neurogenic inflammation in the pathophysiology of migraine  
*Salvatore Salomone (Italy)*

11.00-12.00  Novel therapeutical targets in the treatment of migraine  
*Pierangelo Geppetti (Italy)*

12.00-12.30  Discussion

12.30-13.30  Sponsored lecture

**Pain**  
*Introducted and moderated by Pierangelo Geppetti (Italy)*

16.00-17.00  Current challenges in glia-pain biology  
*Marzia Malcangio (United Kingdom)*

17.00-18.00  The role of neuroinflammation in neuropathic pain: mechanisms and therapeutic targets  
*Paola Sacerdote (Italy)*

18.00-18.30  Discussion

18.30-19.30  Special lecture:  
Modulation of peripheral sensory neurons by the immune system: implications for pain therapy  
*Cristophe Stein (Germany)*

19.30-19.40  Questionnaire
**Friday July 13**\(^{rd}\), 2012

**Schizophrenia**  
*Introduced and moderated by Filippo Drago (Italy)*

10.00-11.00  Role of perinatal inflammation in the pathogenesis of schizophrenia  
*Joram Feldon (Switzerland)*

11.00-12.00  Inflammatory processes in schizophrenia: a promising neuroimmunological target for the treatment of negative/cognitive symptoms  
*Norbert Müller (Germany)*

12.00-12.30  Discussion

12.30-13.30  Sponsored lecture

**Depressive disorders**  
*Introduced and moderated by Donatella Marazziti (Italy)*

16.00-17.00  Neuroinflammation in the pathophysiology of depression: evidence from animal models  
*Nicoletta Brunello (Italy)*

17.00-18.00  Immune response mediators and cells in major depression  
*Lucile Capuron (France)*

18.00-18.30  Discussion

18.30-19.30  The cytokine hypothesis of depression: new targets for adjunctive treatments in depression  
*Winfried Rief (Germany)*

19.30-19.45  Closing remarks  
*Filippo Drago (Italy)*

19.45-19.55  Questionnaire