INTERNATIONAL PhD PROGRAM IN NEUROPHARMACOLOGY
UNIVERSITY OF CATANIA

SUMMER SCHOOL OF NEUROSCIENCE (10)
Decima scuola estiva di Neuroscienze (10)

UNDER THE AUSPICES
OF THE FEDERATION OF EUROPEAN PHARMACOLOGICAL SOCIETIES
(EPHAR)
THE ITALIAN SOCIETY OF PHARMACOLOGY
(SIF)

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  Inflammatory signalling pathways in CNS disorders
Cinzia Dello Russo (Italy)

17.00-18.00  Nerve-Driven Immunity: Neurotransmitters and Neuropeptides in the Immune System
Mia Levite (Israel)

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, inflammation and neuroimmune interactions**
*Introduced and moderated by Pierluigi Navarra (Italy)*

10.00-11.00  The stressed CNS: role of glucocorticoids  
*Ron De Kloet (The Netherlands)*

11.00-12.00  Role of GITRL/GITR system as a modulator of immune response and inflammation: therapeutic perspectives  
*Carlo Riccardi (Italy)*

12.00-12.30  Discussion

12.30-13.30  Sponsored lecture

**The interaction between CNS and immune system (2)**
*Introduced and moderated by Mia Levite (Israel)*

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 Giovanna Maria Scoto (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)*

16.00-16.45  The role of regulatory T cells in multiple sclerosis  
*Roland Liblau (France)*

16.45-17.30  The link between inflammation, synaptic transmission and neurodegeneration in multiple sclerosis  
*Gianvito Martino (Italy)*

17.30-18.15  Natural history of multiple sclerosis in the pediatric age: implications for outcome  
*Martino Ruggieri (Italy)*

18.15-18.30  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

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**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 ?  
*Cynthia A. Lemere (USA)*

19.30-19.40  Questionnaire
Wednesday July 11th, 2012

Neuroimmune interactions in neurodegenerative disorders
*Introduced and moderated by Maria Angela Sortino (Italy)*

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

11.00-12.00  mTOR as a multifunctional therapeutic target in HIV infection
*Ferdinando Nicoletti (Italy)*

12.00-12.30  Discussion

12.30-13.30  Sponsored lecture

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Parkinson’s disease and other neurodegenerative disorders
*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 in Parkinson’s disease: a target for neuroprotection?
*Stephane Hunot (France)*

19.30-19.40  Questionnaire
Thursday July 12th, 2012

**Migraine**  
*Introduced and moderated by Stephane Hunot (France)*

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  Special lecture

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**Pain**  
*Introduced 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 13rd, 2012

**Schizophrenia**  
*Introduced and moderated by Eugenio Aguglia (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  Special lecture  
Neuroinflammation and omega-3 in synaptic circuitry: new targets for neuroprotection  
*Nicolas G. Bazan (USA)*

**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  Special Lecture  
The cytokine hypothesis of depression: new targets for adjunctive treatments in depression  
*Michael Maes (Belgium)*

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

19.45-19.55  Questionnaire