

## Wednesday, September 26<sup>th</sup>, 2012

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### 15:00 **Welcome addresses**

*Sen. R. Stancanelli – Sindaco di Catania*  
*Prof. A. Recca – Rettore Università degli Studi di Catania*  
*Dott. A. Pellicanò – Direttore Generale Azienda Ospedaliera Garibaldi di Catania*  
*Prof. M. Buscema – Presidente Ordine dei Medici di Catania*  
*Dott. A. Pavone – Direttore U.O.C. di Neurologia*

### 15:15 **Session 1: Viruses and autoimmunity**

**Chairs: M. Ruggieri – S. Sotgiu**

*The role of TRIM proteins in autoimmunity*

*Caroline Jefferies*

*Molecular and Cellular Therapeutics, Royal College of Surgeons in Ireland, Dublin 2, Ireland*

### 16:00 **Oral communications**

16:00 Characterization of Epstein-Barr virus genotypes in Multiple Sclerosis

*C. Policano*

*Dip. Neuroscienze, Salute Mentale e Organi di Senso, Centro Neurologico Terapie Sperimentali (CENTERS), Università La Sapienza, Roma, Italy*

16:15 High frequency of cells expressing Multiple Sclerosis (MS) – Associated Retrovirus (MSRV) antigens and coexpression of MSRVENV and Epstein-Barr virus protein LMP1 in inflammatory infiltrates of MS brains

*G. Chiappetta*

*Dept. of Cell Biology and Neuroscience, Istituto Superiore di Sanità, Roma, Italy*

16:30 B Cell transcriptome in Multiple Sclerosis

*R. Annese*

*Centre for Experimental Neurological Therapies (CENTERS), Dept. of Neuroscience and Neurology, S. Andrea Hospital, University La Sapienza, Rome, Italy*

16:45 Quantification of Myelin damage in a toxic experimental model of demyelination

*L. Turati*

*Fondazione Istituto Neurologico Carlo Besta, UO Neurologia, Milano, Italy*

### 18:00 **Get-together Reception**

## Thursday, September 27<sup>th</sup>, 2012

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- 9:00**            **Session 2: Innate immune responses and autoimmunity**  
**Chairs: G. Borsellino – R. Pedotti**  
Negative regulation of innate immunity and autoimmunity  
*Alberto Mantovani*  
*Istituto Clinico Humanitas IRCCS, Rozzano, Italy*
- 9:45**            **Oral communications**  
9:45            A role for neutrophils in the induction of Alzheimer's disease  
*E. Zenaro*  
*Dept. of Pathology and Diagnostic, University of Verona, Italy*
- 10:00           Pathogenic role of Microglia-derived microvesicles in Alzheimer's disease  
*C. Verderio*  
*CNR Institute of Neuroscience, Dept. of Biotechnology and Translational Medicine, University of Milan, Italy*
- 10:15           Monomethyl Fumarate induces a switch of activated Microglia from a Pro-Inflammatory to a Neuroprotective Phenotype  
*B. Parodi*  
*Dept. of Neurosciences, Ophthalmology and Genetics, Genoa, Italy*
- 10:30**           **Coffee break**
- 11:15**           TLR – receptors and autoimmunity  
*Kingston H. G. Mills*  
*Immunology Research Centre and School of Biochemistry and Immunology, Trinity College, Dublin, Ireland*
- 12:00**           **Oral communications**
- 12:00           TLR2 haplotype regulates severity and course of EAE by modulating the proinflammatory Attitude of CNS-specific T cells  
*A. Piermattei*  
*Università Cattolica del Sacro Cuore, Policlinico A. Gemelli, Roma, Italy*
- 12:15           Impact of infectious agents on trafficking of effector T cells is mediated by a polymorphic site of TLR2  
*G. Di Sante*  
*Università Cattolica del Sacro Cuore, Policlinico A. Gemelli, Roma, Italy*
- 12:30           Krebs cycle potentiation has therapeutic effect in experimental autoimmune Encephalo Myelitis  
*S.L. Budui*  
*Dept. of Pathology and Diagnostic, University of Verona, Italy*
- 13.00**           **Lunch break**

## **Thursday, September 27<sup>th</sup>, 2012**

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- 14:30**            **Session 3: New insights on regulation of immune responses**  
**Chairs: F. Gilli – C. Avolio**  
Response to self antigen imprints regulatory memory in tissues  
*Michael Rosenblum*  
*Department of Dermatology, University of California, San Francisco, CA, USA*
- 15:15**            **Oral communications**  
**15:15**            The prokineticin system in experimental autoimmune Encephalo Myelitis:  
possible novel  
targets for immune intervention  
*M. Abou-Hamdan*  
*Neuroimmunology and Neuromuscular Disorders Unit, IRCCS Foundation*  
*Neurological Institute Carlo Besta, Milan, Italy*
- 15:30**            The role of prolactin in the pathogenesis of experimental autoimmune  
Encephalo Myelitis  
*M. Costanza*  
*Neuroimmunology and Neuromuscular Disorders Unit, IRCCS Foundation*  
*Neurological Institute Carlo Besta, Milan, Italy*
- 15:45**            Neurology Mosaic 17: a reliable test for N MO and N MO related disorders diagnosis  
*M. Capobianco*  
*Neuroscience Institute Cavalieri Ottolenghi (NICO), University Hospital*  
*San Luigi, Orbassano, TO, Italy*
- 16:00**            **Coffee break**
- 16:45**            MicroRNA and regulation of immune responses  
*R. Furlan*  
*San Raffaele Scientific Institute, Neuroimmunology, Milan, Italy*
- 17:30**            **Oral communications**  
**17:30**            Neuronal specific T Cells are pathogenic in Biozzi Mice – implications for Multiple  
Sclerosis  
*B. Van der Star*  
*Vu Medical Center, Amsterdam, The Netherlands*
- 17:45**            The P38 MAPK Cascade modulates TH17 generation and functionality in  
relapsing-remitting Multiple Sclerosis  
*D. Di Mitri*  
*Neuroimmunology Unit, Santa Lucia Foundation, Rome, Italy*
- 18:30**            **AINI Soccer Venue**

## **Friday, September 28<sup>th</sup>, 2012**

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- 9:00**            **Session 4: How new treatments for MS affect the immune system**  
**Chairs: G. Martino - G. Savettieri**  
Immunological effects of new treatments for Multiple Sclerosis  
*L. Adorini*  
*Intercept Pharmaceuticals, Milan, Italy*
- 9:45**            **Oral communication**
- 9:45            Nk and NKT cells in relapsing-remitting Multiple Sclerosis  
*D. Plantone*  
*Università Cattolica del Sacro Cuore, Policlinico A. Gemelli, Roma, Italy*
- 10:00           CD8+Central Memory Lymphocytes are increased in primary progressive  
Multiple Sclerosis  
*V. Damato*  
*Università Cattolica del Sacro Cuore, Policlinico A. Gemelli, Roma, Italy*
- 10:15           Ex vivo evaluation of CSF T Cell expansions in MS and other neurological diseases  
*Galante*  
*Dept. of Neurological Sciences, University of Florence, Italy*
- 10:30**           **Coffee break**
- 11:15**           Gene-environment interactions and the immune system  
*M. Salvetti*  
*Neurology, Sant'Andrea Hospital, La Sapienza University, Rome, Italy*
- 12:00**           **Oral communications**
- 12:00           Oxidative stress imbalance and immune system activation in Multiple Sclerosis  
*M. Gironi*  
*Fondazione Don Carlo Gnocchi, IRCCS S. Maria Nascente, Milano, Italy*
- 12:15           Investigation of TLR7-Mediated Bystander responses in MS patients undergoing  
IFN- $\gamma$  therapy: unveiling the B Cell-Monocyte crosstalk  
*E. M. Coccia*  
*Dept. of Infectious, Parasitic and Immunomediated Diseases, Istituto Superiore  
di Sanità, Rome, Italy*
- 12:30           Coordinated inhibition of Matrix Metalloproteinase-9 and Urokinase  
Plasminogen activator by immunomodulant therapies in peripheral blood  
Mononuclear Cells from MS patients  
*M. G. Liuzzi*  
*Dept. of Biosciences, Biotechnology and Farmacological Sciences, University of  
Bari, Italy*
- 13:00**           **Lunch break**

## Friday, September 28<sup>th</sup>, 2012

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**14:30**            **Session 5: AINI-AIM (Italian Association of Myology) Workshop**

**Chairs:**        **A. Toscano – F. Baggi**

### **Myasthenia and myasthenic syndromes**

14:30            Pathogenic antibodies in myasthenia gravis  
*A. Evoli*  
*Neuroscience, Catholic University, Policlinico A. Gemelli, Rome, Italy*

15:00            Immunology of Eaton-Lambert syndrome  
*C. Rodolico*  
*Neuroscience, University of Messina, Messina, Italy*

### **Autoimmune myopathies**

15:30            Immunology of autoimmune myopathies  
*R. Mantegazza*  
*National Neurologic Institute C. Besta, Milan, Italy*

16:00            Immunological and degenerative mechanisms of inclusion-body myositis  
*M. Mirabella*  
*Neurology, Catholic University, Policlinico A. Gemelli, Rome, Italy*

**16:30**            **Posters & coffee**

### **MAIT CELLS DISPLAY PROINFLAMMATORY CHARACTERISTICS IN MULTIPLE SCLEROSIS**

Angelini Daniela F.  
Neuroimmunology Unit, Santa Lucia Foundation, Rome, Italy

### **BIOMOLECULAR STUDY OF MSCS ISOLATED FROM MULTIPLE SCLEROSIS PATIENTS**

Bonechi Elena  
Dept. of Neurological Sciences, University of Florence, Italy

### **A LIPIDOMIC INVESTIGATION FOR THE CHARACTERIZATION OF CSF LIPID PROFILE IN PATIENTS WITH MULTIPLE SCLEROSIS**

Di Iorio Maria  
Dept. of Neurosciences and Imaging, University G. d'Annunzio, Chieti, Italy

### **EPSTEIN-BARR VIRUS-SPECIFIC OLIGOCLONAL IGM BANDS IN SERUM AND CEREBROSPINAL FLUID OF PATIENTS WITH CLINICALLY ISOLATED SYNDROMES**

Galli Veronica  
Dept. of Neurosciences, University of Modena and Reggio Emilia, Italy

### **A CASE OF ADEM AFTER FLU SHOT**

Gandoglia Ilaria  
Neurosciences, Ophthalmology and Genetics Department, University of Genoa, Italy

**CHARACTERIZATION OF MYELOID SHEDDING VESICLES TRANSCRIPTOMICS**

Garzetti Livia

Institute of Experimental Neurology, INSPE, Division of Neurosciences, San Raffaele Scientific Institute, Milan, Italy

**IMPAIRED SUPPRESSOR FUNCTION OF CD56BRIGHT NK CELLS IN EARLY MULTIPLE SCLEROSIS**

Laroni Alice

Neurosciences, Ophtalmology and Genetics Department, University of Genoa, Italy

**PROTEOMIC INVESTIGATIONS ON DIFFERENTIAL POST-TRANSLATIONAL MODIFICATIONS OF TRANSTHYRETIN IN MULTIPLE SCLEROSIS**

Pieragostino Damiana

Dept. of Biomedical Sciences, University G. d'Annunzio, Chieti, Italy

**PROTEIN-PROTEIN INTERACTION ANALYSIS HIGHLIGHTS ADDITIONAL LOCI OF INTEREST FOR MULTIPLE SCLEROSIS**

Ragnedda Giammario

Sezione di Neurologia, Dip. di Medicina Clinica e Sperimentale, Università di Sassari, Italy

**NEUTROPHIL DEPLETION DURING SENSITIZATION PHASE AFFECTS THE CHRONIC PHASE OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS.**

Rigolio Roberta

Dip. di Neuroscienze e Tecnologie Biomediche, Università di Milano-Bicocca, Monza, Italy

**2D PAGE DETECTION OF NEUROFILAMENT LIGHT CHAIN (NF-L) AGGREGATES IN CEREBROSPINAL FLUID (CSF) AND SERUM OF PATIENTS WITH AMYOTROPHIC LATERAL SCLEROSIS (ALS)**

Savino Laura

Dept. of Neuroscienze and Sense Organs, University of Bari, Italy

**ADRENERGIC/DOPAMINERGIC PATHWAYS IN CIRCULATING LYMPHOCYTES AS EARLY MARKERS OF CIS PROGRESSING TO MULTIPLE SCLEROSIS**

Schembri Laura

Center for Research in Medical Pharmacology, University of Insubria, Varese, Italy

**CLINICALLY ISOLATED SYNDROMES AND CONVERSION TO RELAPSING-REMITTING MULTIPLE SCLEROSIS: A STUDY ON POSSIBLE PREDICTORS, INCLUDING CEREBROSPINAL FLUID OLIGOCLONAL IGM BANDS**

Simone Anna Maria

Dept. of Neurosciences, Nuovo Ospedale Civile S. Agostino Estense, University of Modena and Reggio Emilia, Italy

**18:30 AINI General Assembly**

**20:30 AINI Social Dinner**

## **Saturday, September 29<sup>th</sup>, 2012**

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- 9:00**            **Session 6: Central nervous system and immune system – Interactions in healthy and pathological conditions**  
**Chairs: L. Grimaldi – G. Matarese**  
Innate immune response in healthy and inflamed brain  
*Trevor Owens*  
*Department of Neurobiology Research, Institute of Molecular Medicine, University of Southern Denmark, Odense, Denmark*
- 9:45**            **Oral communications**
- 9:45            Can MSCS use the cholinergic system to carry out their immunomodulatory functions?  
*S. Casazza*  
*Dept. of Neuroscience, Ophthalmology and Genetics, University of Genoa, Italy*
- 10:00            Upregulation of the Neurotrophin Receptor TRKB on astrocytes during CNS inflammation drives Nitric Oxide release and neurodegeneration  
*E. Colombo*  
*Institute of Experimental Neurology (INSPE), San Raffaele Scientific Institute, Milan, Italy*
- 10:15            Comprehensive identification of the soluble factors involved in Mesenchymal Stem Cells-mediated neuroprotection utilizing the silac approach  
*L. Lovato*  
*Neurosciences, Ophthalmology and Genetics Department, University of Genoa, Italy*
- 10:30**            **Coffee break**
- 11:15**            The role of immune system in neurodegenerative diseases  
*Sandra Amor*  
*Department of Pathology, VU University Medical Centre, Amsterdam, The Netherlands*
- 12:00**            **Oral communications**
- 12:00            Myeloid Microvesicles as potential biomarkers in probable Alzheimer disease and Other dementia patients  
*D. Dalla Libera*  
*San Raffaele Hospital INSPE, Vita-Salute University, Milan, Italy*
- 12:15            Immune system activation in cognitive impairment: what is the role?  
*M. Gironi*  
*Fondazione Don Carlo Gnocchi, IRCCS S. Maria Nascente, Milan, Italy*
- 12:30**            **Closing remarks**
- 13:00**            **Farewell cocktail**