

## Wednesday, October 8

15:00      **Opening remarks**  
Dr. Giuseppe Matarese, IEOS-CNR  
Prof. Alfredo Fusco, Direttore IEOS-CNR  
Prof. Guido Trombetti, Rettore dell'Università di Napoli Federico II

**1<sup>st</sup> Session**      **Natural Immunity and Autoimmunity**  
Chairs: Luca Battistini, Gianvito Martino

15:30 - 16:15      **Marco Cassatella (I)**  
Neutrophils as active participants in cross-talks with other cells of the immune system

### SELECTED ORAL COMMUNICATIONS

16:15 - 16:30      Roberto Zarbo (I)  
**Chitin-like glycopolymers, chitotriosidase and microglia in Alzheimer's disease and Multiple sclerosis**

16:30 - 16:45      Francesca Cavasinni (I)  
**Microglia/Macrophages cells affect the adult neural stem cell niches during experimental autoimmune encephalomyelitis**

16:45 - 17:00      Debora Giunti (I)  
**Mesenchymal stem cells exert anti-oxidant effects through the impairment of arginine metabolism**

17:00 - 17:15      Martina Severa (I)  
**EBV at the crossroads in MS pathogenesis: possible role of pDC in persistent viral infection in the central nervous system**

17:15 - 17:30      Clara Ballerini (I)  
**Impairment of dendritic cell function is crucial for protection afforded by PARP-1 inhibitors in experimental models of multiple sclerosis**

17:30 - 17:45      Caterina Veroni (I)  
**Microglia involvement in the negative regulation of the inflammatory response via TNFR2 signalling**

18:00      Welcome cocktail

# Thursday, October 9

## 2<sup>nd</sup> Session Molecular Mechanisms in T cell Activation and Migration: Parallels between Immune and Neural Synapsis

Chairs: Gabriela Constantin; Carlo Avolio

9:00 – 9:45 **Antonella Viola (I)**  
Costimulation at the T cell immunological synapse

### SELECTED ORAL COMMUNICATIONS

9:45 – 10:00 Federica Benvenuto (I)  
**Study of interactions between Human Mesenchymal Stem Cells and unconventional T Cell populations**

10:00 – 10:15 Silvia Musio (I)  
**Experimental autoimmune encephalomyelitis in Wiskott-Aldrich syndrome knock out mice**

10:15 – 10:30 Stefano Angiari (I)  
**Glycosylation-dependent suppression by CD4+CD25+ regulatory T cells in experimental autoimmune encephalomyelitis**

10:30 – 10:45 Marilena Lapilla (I)  
**Histamine regulates encephalitogenic T cells activation and trafficking through the CNS**

10:45 – 11:00 Antonio Uccelli (I)  
**A CCR6-CCL20 axis controls Th17 cell migration through the choroid plexus and triggering of experimental autoimmune encephalomyelitis**

11:00 – 11:30 Coffee break

### 3<sup>rd</sup> Session **Basic Mechanisms in Immune Tolerance: the Role of Regulatory T cells** Chairs: Giovanna Borsellino, Giuseppe Matarese

11:30 - 12:15 **Arne Akbar (UK)**  
The study of human memory and regulatory T cells in vivo

#### SELECTED ORAL COMMUNICATIONS

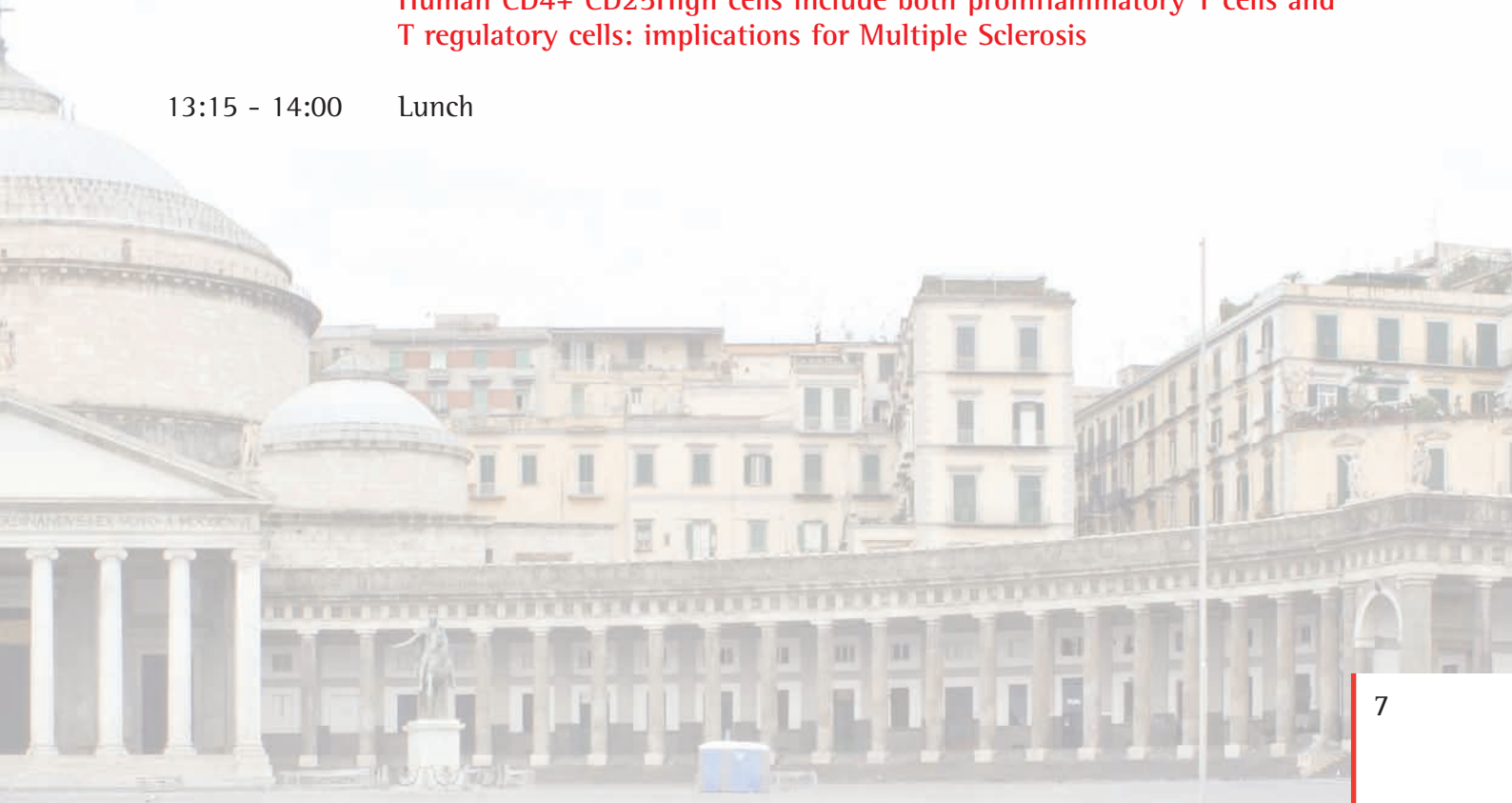
12:15 - 12:30 Marianna Esposito (I)  
**Kinetic and cytokine profile of CD4+FOXP3+ regulatory T cells in peripheral lymphoid organs and CNS during the course of relapsing experimental autoimmune encephalomyelitis**

12:30 - 12:45 Raffaele Iorio (I)  
**T-bet, pSTAT1 and pSTAT3 expression in peripheral blood mononuclear cells during pregnancy correlates with post-partum activation of Multiple Sclerosis**

12:45 - 13:00 Sara Morando (I)  
**Systemic administration of therapeutic mesenchymal stem cells induces expansion of FoxP3 positive T regulatory cells in the Central Nervous System of EAE affected mice**

13:00 - 13:15 Diletta Di Mitri (I)  
**Human CD4+ CD25<sup>High</sup> cells include both proinflammatory T cells and T regulatory cells: implications for Multiple Sclerosis**

13:15 - 14:00 Lunch



## 4<sup>th</sup> Session Novel Therapeutic Strategies in Autoimmunity and Multiple Sclerosis

Chairs: Rosetta Pedotti, Bruno Bonetti

14:00 - 14:45 **Halina Offner (USA)**  
RTL Therapy for EAE and Multiple Sclerosis

### SELECTED ORAL COMMUNICATIONS

14:45 - 15:00 Marianna Esposito (I)  
**Rapamycin inhibits relapsing EAE by encephalitogenic T cells suppression and not through treg expansion**

15:00 - 15:15 Francesca Gilli (I)  
**Pregnancy reverts the imbalanced expression of inflammation-related genes in patients with multiple sclerosis**

15:15 - 15:30 Silvia Marconi (I)  
**Preventive and therapeutic beneficial effect of adipose-derived mesenchymal stem cells in chronic EAE**

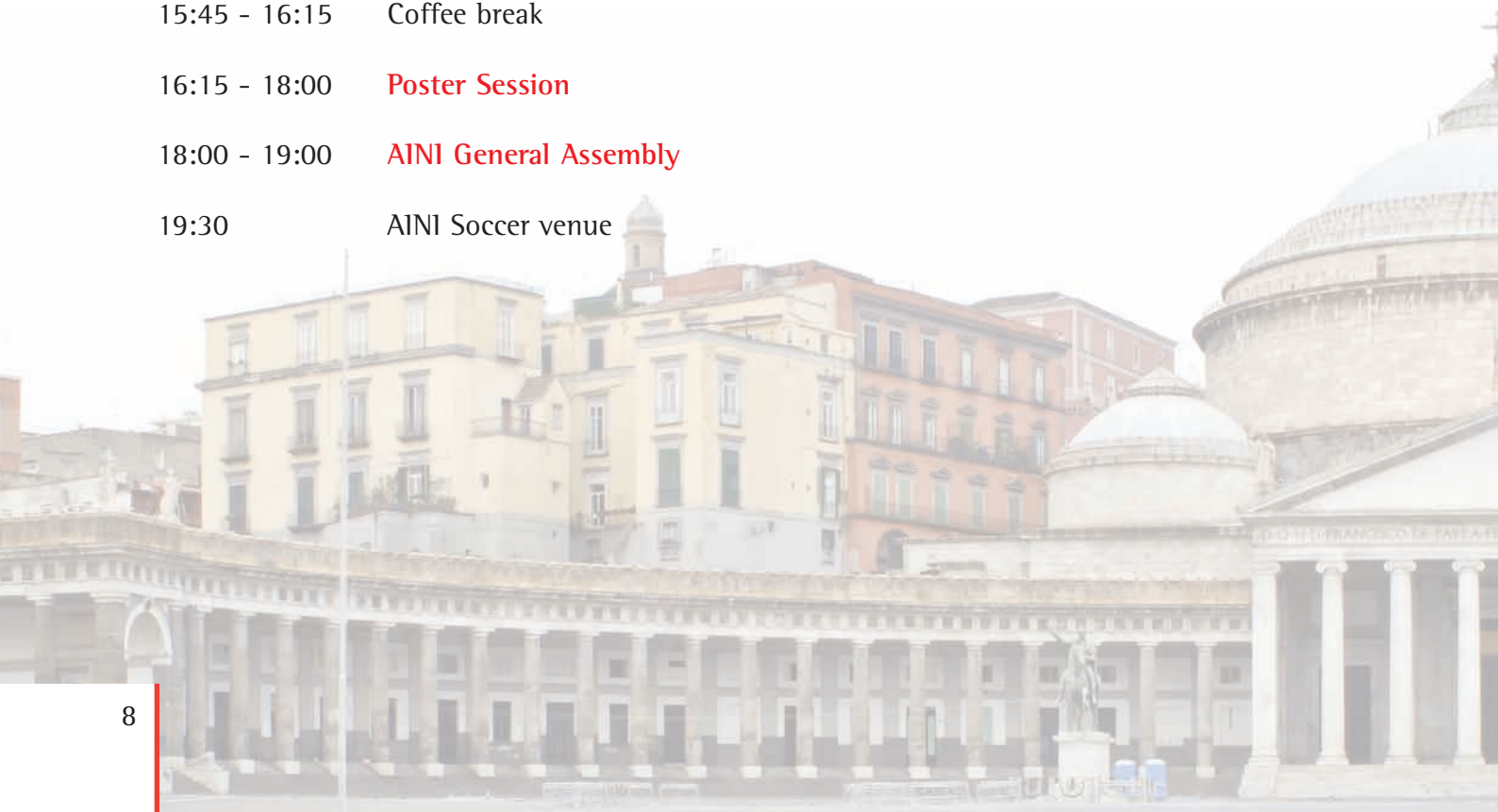
15:30 - 15:45 Andrea Urbani (I)  
**Impact of ex vivo protein modifications for Multiple Sclerosis biomarker discovery**

15:45 - 16:15 Coffee break

16:15 - 18:00 **Poster Session**

18:00 - 19:00 **AINI General Assembly**

19:30 AINI Soccer venue





## Friday, October 10

### 5<sup>th</sup> Session **MINI SIMPOSIO: Novel Pathogenic Mechanisms in Autoimmunity: the Role of Viruses** Chairs: Francesca Aloisi, Stefano Sotgiu

9:00 - 9:45 **Hans Hengartner (CH)**  
Immunologic strategies to control cytopathic and non-cytopathic viral infections

9:45 - 10:30 **Pasquale Ferrante (I)**  
Virus and immune system interplay in CNS diseases

10:30 - 11:00 Coffee break

11:00 - 11:45 **Alberto Ascherio (USA)**  
Multiple Sclerosis and EBV infection: Epidemiological perspective

#### SELECTED ORAL COMMUNICATIONS

11:45 - 12:00 Massimiliano Castellazzi (I)  
**Detection of Chlamydia pneumoniae-specific intrathecal oligoclonal antibody response in a subset of patients with progressive forms of multiple sclerosis**

12:00 - 12:15 Barbara Serafini (I)  
**Further evidence of Epstein-Barr virus infection in the multiple sclerosis brain: focus on latent membrane protein 2A**

12:15 - 12:30 Paola Cavalcante (I)  
**Epstein-Barr virus persistence and reactivation in thymus of myasthenic patients: a contributory factor in myasthenia gravis?**

12:30 - 12:45 Rosella Mechelli (I)  
**Epstein-Barr virus strains and serological profiles in identical twins discordant for Multiple Sclerosis**

13:00 - 14:00 Lunch

**6<sup>th</sup> Session** AutoAntibodies and Autoimmunity: Novel Frontiers in the Pathogenesis of Neurological Disorders  
Chairs: Diego Franciotta, Francesco Lolli

14:00 - 14:45 **Vittorio Enrico Avvedimento (I)**  
RAS-ROS-ERK1/2 autoamplificatory loop in autoantibody-mediated autoimmune disorders

**SELECTED ORAL COMMUNICATIONS**

14:45 - 15:00 Stefano Sotgiu (I)  
**A patient with anti-MAG polyneuropathy and multiple sclerosis-like disease. Coincident or concausal association?**

15:00 - 15:15 Francesco Lolli (I)  
**Post-european-consensus evaluation of cerebrospinal fluid examination in MS: a metanalysis of oligoclonal band diagnostic performance**

15:15 - 15:30 Beatrice Gini (I)  
**Identification of the molecular targets of oligoclonal IgG in cerebro-spinal fluid of Multiple Sclerosis patiens by proteomic approach**

15:30 - 15:45 Paolo Alboini (I)  
**Serum BLyS/BAFF levels in patients with myasthenia gravis**

15:45 - 16:00 Roberto Furlan (I)  
**Evaluation of different techniques to detect anti-aquaporin 4 antibodies**

16:00 - 16:30 Coffee break

16:30 - 18:00 **Poster Session**

20:30 Gala Dinner – Palazzo Reale

## Saturday, October 11

### 7<sup>th</sup> Session Neural Plasticity, NeuroDegeneration and Regeneration

Chairs: Stefano Pluchino, Antonio Uccelli

9:00 - 9:45 **Diego Centonze (I)**  
Synaptic plasticity in Multiple Sclerosis and in experimental MS

9:45 - 10:30 **Tamas Horvath (USA)**  
The role of mitochondrial uncoupling protein 2 in synaptic plasticity and neuronal survival

#### SELECTED ORAL COMMUNICATIONS

10:30 - 11:00 Coffee break

11:00 - 11:15 Chiara Cossetti (I)  
**Exploring the immunomodulatory properties of human neural stem/precursor cells**

11:15 - 11:30 Lucia Zanotti (I)  
**Immune regulatory neural stem/precursor cells restrain dendritic cell function in secondary lymphoid organs via a BMP-4-dependent mechanism**

11:30 - 11:45 Maria Cristina Principato (I)  
**Mesenchymal stem cells as treatment for multiple sclerosis: immunomodulation versus neuroprotection**

11:45 - 12:00 Emanuela Colombo (I)  
**p75NTR is a marker for human muscular satellite cells and is over-expressed in mature skeletal muscle fibers in inflammatory myopathies**

12:00 - 12:45 **AINI Standardization Guidelines**

12:45 - 13:15 **AINI Awards**

13:15 - 13:30 **Closing remarks**

13:30 Farewell cocktail