

## Thursday, October 1<sup>st</sup>

12:30 **Opening Addresses**  
Piero Filigheddu - Sindaco di Arzachena  
Giulio Rosati - Preside della Facoltà di Medicina, Università degli Studi di Sassari  
Stefano Sotgiu - Professore Associato di Neurologia, Università degli Studi di Sassari

### **Session 1. Pathogenesis of Neuroimmunologic Diseases I**

Chairs: S. Sotgiu, G. Rosati

12:45 **Channelopathies of autoimmune origin**  
A. Evoli, Italy

13:30 **Lunch**

14:30 **Limbic encephalitis as a model of immune-mediated cognitive disorders**  
F. Graus, Spain

### **Session 2. CSF Analysis and AINI Guidelines Updating**

Chairs: F. Lolli, D. Franciotta

15:15 **CSF in Multiple Sclerosis**  
H. Link, Sweden

16:00 **AINI Guidelines updating**  
F. Lolli, D. Franciotta - Italy

17:00 **Coffee break**

### **Session 3. Pathogenesis of Neuroimmunologic Diseases II**

Chairs: C. Avolio, M. Salvetti

17:30 **Neuropathology and pathogenesis of Multiple Sclerosis**  
H. Lassmann, Austria

18:00 **Monoclonal Abs and B cells in Multiple Sclerosis**  
E. Meinl, Germany

18:30 **AINI General Assembly**

20:30 **Get-together Reception**

# Friday, October 2<sup>nd</sup>

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## Session 4. Basic Neuroimmunology

Chairs: L. Battistini, S. Pluchino

9:00 **Innate immunity in neurodegeneration**  
S. Rivest, Canada

9:30 **Experimental Myasthenia Gravis**  
F. Baggi, Italy

10:00 **Blood-brain barrier and leukocyte trafficking**  
G. Constantin, Italy

10:30 Coffee break

### Selected oral communications

11:00 **Role of T-cell immunoglobulin- and mucine-domain-containing molecule (TIM)-1 in leukocyte adhesion in inflamed brain venules**  
S. Angiari, Italy

11:15 **Presence of poliovirus-infected macrophages in myasthenia gravis thymus**  
P. Cavalcante, Italy

11:30 **Dual role of Chitin on neural cells: stimulation of microglia and neuronal cytotoxicity. Implications for neuroinflammatory and neurodegenerative diseases**  
E. Turano, Italy

11:45 **Phenotype and function of CD4<sup>+</sup>CD25<sup>+</sup> T cells in myasthenia gravis (MG) thymus**  
A. Battaglia, Italy

12:00 **Analysis of T cell dynamics in experimental autoimmune encephalomyelitis by two-photon microscopy**  
B. Rossi

12:15 **Depletion of the intracellular coenzyme NAD<sup>+</sup> in activated T cells ameliorates experimental autoimmune encephalomyelitis**  
S. Morando

12:30 **Pathological features of a complement-mediated necrotizing myopathy**  
A. Russignan

12:45 **Identification and characterization of muscle-specific antigens in patients affected with idiopathic inflammatory myopathies**  
V. Guglielmi

13:00

Lunch

15:00

## Poster Session

### **Myasthenia Gravis and gastrointestinal stromal tumors: paraneoplastic association?**

S. Angiari, Italy

### **AspM in the neural stem cells niche of the embryonic and adult brain**

C. Marinaro

### **Anti basal ganglia antibodies in a patient affected by acute myoclonus. A case report**

D. Privitera

### **Proteomics and Metabonomics investigation of regulatory T cells**

L. Pieroni

### **Cerebrospinal fluid oligoclonal IgM bands in Guillain-Barré Syndrome**

A.M. Simone

### **Acetylcholine receptor seronegative myasthenia gravis in North Sardinia**

D. Corda

### **Analysis of PTPN22 allele frequencies in MG patients**

E. Bartoccioni

### **NGF modulates in vitro $\alpha$ SMA/p75NTR expression in conjunctival fibroblasts from human Ocular Cicatricial Pemphigoid**

B. Stampachiacchiere

### **Mesenchymal stem cells exert beneficial effects on microglia**

B. Parodi

## Session 5. Immune Tolerance and Regulation

Chairs: R. Pedotti, G. Matarese

16:00

### **Regulatory/effector T-cells in CNS inflammation**

R. Furlan, Italy

16:30

### **AlphaB-crystallin in Multiple Sclerosis**

H. Van Noort, The Netherlands

17:00

Coffee break

## Selected oral communications & posters

- 17:30 **Mast cell-deficient Kit W-sh/W-sh mice develop exacerbated Experimental Autoimmune Encephalomyelitis**  
M. Costanza
- 17:45 **Cell and molecular changes in the cortex of secondary progressive multiple sclerosis cases are strongly associated with meningeal inflammation**  
R. Magliozzi
- 18:00 **Anandamide suppresses proliferation and cytokine release from primary human T-lymphocytes via CB2 receptors**  
M.T. Cencioni
- 18:15 **Effect of interleukin-27 on natural killer cell subsets**  
A. Laroni
- 18:30 **P2X7 purinergic receptor on monocytes of patients with Multiple Sclerosis: effects of Glatiramer Acetate immune modulation**  
M. Caragnano
- 18:45 **Altered miRNA expression in T regulatory cells in course of Multiple Sclerosis**  
G. De Santis
- 19:00 **Vaccination against single TCR beta CDR3 modifies the PLP139-151-specific T cell repertoire and decreases severity of EAE in the SJL mouse**  
F. Ria
- 19:15 **Effect of low molecular weight thiols in experimental autoimmune encephalomyelitis (EAE)**  
S.D. Bach
- 19:30 **Quantification of CSF and serum levels and intrathecal synthesis of anti-EBV antibodies in patients with multiple sclerosis and with other neurological disorders**  
M. Castellazzi
- 19:45 **Naïve (PD1NEG) and activated (PD1POS) CD4+T regulatory cells in patients with mild cognitive impairment (MCI) and alzheimer's disease (AD)**  
M. Saresella
- 20:00 **AINI soccer venue**
- 20:30 **Dinner**

## **Saturday, October 3<sup>rd</sup>**

### **Session 6. Viruses and Genes in MS**

Chairs: F. Cucca, A. Dolei

9:00

#### **Genetic of Multiple Sclerosis**

G. Ebers, UK

9:30

#### **HERV and viruses in Multiple Sclerosis**

H. Perron, France

10:00

#### **EBV and Multiple Sclerosis**

C. Münz, Switzerland

10:30

Coffee break

### **Selected oral communications & posters**

11:15

#### **Epstein-Barr virus genotypes in Multiple Sclerosis**

R. Mechelli

11:30

#### **Characterization of EBV-specific CD8+ T cells in Multiple Sclerosis**

D. Angelini

11:45

#### **Regulation by viruses and cytokines of endogenous retroviruses of the W family**

A. Dolei

12:00

#### **Conditionally replicating lentiviral-hybrid episomal vectors in Epstein-Barr virus positive cells: potential for application in Multiple Sclerosis**

M. Blasi

12:10

#### **High frequency of cells expressing human endogenous retrovirus (HERV) -W env and gag antigens in Epstein-Barr virus-enriched inflammatory infiltrates and ectopic follicles in the multiple sclerosis brain**

B. Serafini

12:20

#### **HERV-w/MSRV in the CSF significantly predicts the secondary progressive MS course upon 10-years follow-up**

I.R. Zarbo

12:30

Lunch

15:00

## Poster Session

**Preliminary evaluation of natalizumab treatment in relapsing remitting Multiple Sclerosis patients**

R. Mancuso

**Rac2 Gene SNP Correlate with Disease Course in Multiple Sclerosis and Modulate Myelin Basic Protein-Specific Immune Responses**

F.R. Guerini

**Circulating polar lipids in Multiple Sclerosis: a mass spectrometry based lipidomic investigation**

A. Urbani

**IL-25 gene therapy in RR-EAE SJL mice**

C. Maiorino

**Immunoproteomic approach to identify new autoantigens in Multiple Sclerosis**

F. Delunardo

**Proteomic analysis of CSF in multiple sclerosis patients and controls: a study in Sardinian population**

G.M. Ragnedda

## Session 7. Markers of CNS-PNS Inflammation

Chairs: L. Massacesi, D. Maimone

16:00

**MRI of the CNS**

M. Rovaris, Italy

16:30

**Paraneoplastic/Post-infectious PNS diseases**

R. Fazio, Italy

17:00

**Proteomic/immunomic of Multiple Sclerosis**

B. Bonetti, Italy

17:30

Coffee break



## **Selected oral communications**

- 18:00 **Gene expression in peripheral blood CD8+T cells from MS-discordant monozygotic twins and unrelated patients and controls**  
V. Annibaldi
- 18:15 **B cell response to IFN- $\beta$  therapy in MS patients: differential responsiveness to TLR and induction of an antiviral state**  
E.M. Coccia
- 18:30 **Overlapping molecular mechanisms of protection during pregnancy and disease-modifying therapies in patients with Multiple Sclerosis**  
F. Gilli
- 18:45 **Validation of a multiparametric immunofluorescence assay for the serologic diagnosis of Neuromyelitis Optica by detecting anti-Aquaporin 4 antibodies**  
L. Granieri
- 19:00 **Circulating Perforin+CD8+ T cells and T-bet+CD8+ T cells in Relapsing Remitting, Secondary Progressive and Primary Progressive Multiple Sclerosis patients**  
V. Nociti
- 19:15 **Immunomic analysis of the autoantibody response in EAE following immunization with different encephalitogenic autoantigens**  
A. Farinazzo
- 19:30 **Mesenchymal stem cells impairs bone marrow dendritic cell function in vivo**  
S. Chiesa
- 19:30 **AINI Awards**
- 20:30 **AINI Social Dinner**

# Sunday, October 4<sup>th</sup>

## Session 8. Immunotherapy and Neuroprotection

Chairs: A. Uccelli, F. Aloisi

9:00

### Immunotherapy of AD

S. Rivest, Canada

9:30

### Mesenchymal Stem Cells for Multiple Sclerosis: does neural differentiation really matter?

A. Uccelli, Italy

10:00

### Complementary therapy of MS

P. Riccio, Italy

10:30

Coffee break

## Selected oral communications

11:00

### Role of TrkB on reactive astrocytes in MS lesions

C. Cordiglieri

11:15

### Clinical response to glatiramer acetate correlates with modulation of IFN $\gamma$ and IL-4 gene expression in patients with multiple sclerosis

N.D. Navone

11:30

### Opioid-driven-endocannabinoids modulation in Multiple Sclerosis patients treated with naltrexone

M. Gironi

11:45

### Adipose-derived mesenchymal stem cells ameliorate chronic established experimental autoimmune encephalomyelitis

S. Marconi

12:00

### Type I Interferons and innate immunity: evidence of a viral etiology for idiopathic inflammatory myopathies

C. Cappelletti

12:15

### Selective killing of neural stem/precursor cells in the adult mouse: potential application to study the role of the endogenous CNS stem cell compartment in neurological diseases

E. Butti

12:30

### Impact of lead neurotoxicity on gelatinase production in THP-1 cells effect of antioxidants and therapeutical implications for the treatment of CNS diseases

G.M. Liuzzi

12:45

### Closing remarks

13:00

Farewell cocktail