Scientific program

Day 1 | Monday May 5th

Congress Opening

(14:15 - 14:30)

Welcome Remarks

Marinella Clerico, Simona Rolla, Gabriela Constantin, Diego Centonze & Roberto Furlan

Opening Lecture "Neuroimmunology passion lives here"

(14:30 – 15:30)

Chairs: Marinella Clerico (University of Turin- Turin, Italy) & Roberto Furlan (INSpe San Raffaele Scientific Institute - Milan, Italy)

14:30 – 15:00 Welcome to XXXIII AINI Congress

Robert Nisticò (AIFA President – Rome, Italy)

- 15:00 15:30 **Perspectives of MS and NMO persons and patient organizations** Mario Alberto Battaglia (*University of Siena – Siena, Italy*)
- 15:30 16:00 *Coffee Break*

Non-ECM Industry Seminars

(16:00 - 17:30)

- 16:00 16:30Ocrelizumab subcutaneous, a new option for patientsJuan Acosta (Global Medical Scientific Leader Multiple Sclerosis, Roche)
- 16:30 17:00 **ITAKOS: an observational Italian study on ofatumumab with a new exploratory endpoint** Renato Turrini (*Medical Head Neurosciences, Novartis Italy*)
- 17:00 17:30 Advancements in neurology Pascal Rufi (Global Medical Lead Pipeline Products, Speciality Care Multiple Sclerosis, Sanofi)

Day 2 | Tuesday May 6th



Finanziato dall'Unione europea NextGenerationEU







Neuroimmunology in novel contexts "Un bicerin con Cavour"

(09:00 – 11:00)

Chairs: Paola Cavalla (Dipartimento di Neuroscienze Rita Levi Montalcini - Turin, Italy) & **Diana Ferraro** (Ospedale Civile di Baggiovara Azienda Ospedaliero-Universitaria di Modena – Modena, Italy)

09:00-09:30 Immune control of cardiovascular function

Daniela Carnevale (La Sapienza University, Rome, Italy)

09:30-10:00 Neurofilaments and beyond to monitor disease activity in Multiple Sclerosis? Jens Kuhle (Institution University Hospital – Basel, Switzerland)

Oral Presentations

- 707 | miR-124-3p influences in a gender-dependent manner early progression in MS 10:00-10:12 Ettore Dolcetti (IRCSS Neuromed – Pozzilli, Italy/University of Rome Tor Vergata – Rome, Italy)
- 10:12-10:24 725 | Innate immunity in Multiple Sclerosis: training by the microbiota Silvia Corbisiero (IRCCS Fondazione Santa Lucia – Rome, Italy)
- 771 | Analysis of bone marrow-resident T-cells in multiple sclerosis 10:24-10:36 Jens Geginat (Fondazione Istituto Nazionale di Genetica Molecolare Romeo ed Enrica Invernizzi - Milan, Italy)
- 10:36-10:48 756 | B cell subset dynamics and regulation of serum cytokines during pregnancy and early post-partum in women with Multiple Sclerosis Severa Martina (Istituto Superiore di Sanità - Rome, Italy)
- 738 | Elevated Kappa Index predicts transition to high-efficacy therapies in Multiple 10:48-11:00 Sclerosis

Simone Marcheselli (University of Modena and Reggio Emilia - Modena, Italy)

Ministero

11:00-11:30 Coffee Break









Immune inflammation in aging and neurodegenerative disorders "A look toward the holy grail" (11:30 - 13:15)

Chairs: Giovanna Borsellino (IRCCS Fondazione Santa Lucia - Rome, Italy) & Massimiliano Di Filippo (University of Perugia -Perugia, Italy)

| 11:30-12:00 | Alterations of the neuroimmune communication in neurodegenerative diseases Gabriela Constantin (University of Verona – Verona, Italy) |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12:00-12:30 | The immunity of intestinal aging Francesco Neri (University of Torino – Turin, Italy) |
| | Oral Presentations |
| 12:30-12:42 | 753 Copper in immunity and neuroinflammation Davide De Federicis (IRCCS San Raffaele Hospital - Milan, Italy) |
| 12:42-12:54 | 790 Effects of anti-CD20 therapy on T lymphocyte-dependent synaptic excitotoxity in Multiple Sclerosis Georgia Mandolesi (University of Rome San Raffaele/IRCCS San Raffaele Roma - Rome, Italy) |
| 12:54-13:06 | 774 GrK+ CD103- Trm CD8+ T cells negatively impact Alzheimer's disease development Eleonora Terrabuio (University of Verona – Verona, Italy) |
| 13:15-14:15 | Lunch |
| | |



AINI Quality Control "EQAS 2025"

(14:15 – 15:00)

Chair: Alessia di Sapio (University of Torino – Turin, Italy)

14:15-15:00 Report of EQAS 2025 Results

Roberto Furlan (INSpe San Raffaele Scientific Institute - Milan, Italy)









NODES Session: Omics & Artificial Intelligence in Brain diseases "Punt e Mes"

(15:00 - 17:00)

Chairs: Eleonora Cocco (Università degli Studi di Cagliari – Cagliari, Italy) & **Cinthia Farina** (IRCCS San Raffaele Scientific Institute - Milan, Italy) & **Simona Rolla** (University of Turin – Turin, Italy)

| 15:00-15:30 | Decoding Neuroimmunology: from omics data to digital twins Francesca Cordero (University of Torino – Turin, Italy) |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:30-16:00 | An evolutionary origins of MS? Data from ancient DNA studies Lars Fugger (Oxford University – Oxford, UK) |
| 16:00-16:30 | Virtual Brain modelling in Brain diseases Egidio D'Angelo (University of Pavia – Pavia, Italy) |
| | Oral Presentations |
| 16:30-16:42 | 709 Tracking EBV-specific T-cell receptor sequences from published data in the CNS and periphery of Multiple Sclerosis patients Roberta Amoriello (University of Florence - Florence, Italy) |
| 16:42-16:54 | 782 Gut microbiota signatures at the onset of Multiple Sclerosis as predictive markers of disease progression Alessandro Maglione (University of Torino - Turin, Italy) |

Poster Session I & Coffee "New obsession"

(17:00 - 18:30)

Chairs: Martina Severa (ISS - Rome, Italy) & **Claudio Procaccini** (EOS-CNR - Naples, Italy) & **Rosella Mechelli** (IRCCS San Raffaele - Rome, Italy)

706 | Choroid plexus involvement in progressive multiple sclerosis: insights from neuropathology and CSF analysis Marina Mastantuono (University of Verona – Verona, Italy)

711 | A Combined Biomarker Panel Reflecting Immune Activation and Axonal Damage for Stratifying Early Multiple Sclerosis Patients at Risk of Progression

Maria Ilenia De Bartolo (Sapienza University of Rome – Rome, Italy/IRCCS Neuromed – Pozzilli, Italy)

712 | Exploring neurofilaments heavy chains (NfH) as a potential biomarker of disease progression in multiple sclerosis: A Multimodal analysis

Elena Barusolo (University of Verona – Verona, Italy)



715 | Specialized Pro-resolving lipid Mediators modulate choroid plexus inflammatory activity in Multiple Sclerosis Veronica Ceci (*IFT-CNR/IRCCS Santa Lucia Foundation – Rome, Italy*)

716 | Altered hematopoiesis in the skull bone marrow in a mouse model of Parkinson's disease Marta Bottero (*Dipartimento di Meidicna Sperimentale (DIMES*) – *Genoa, Italy*)

717 | Rubik: a fluorescent reporter to label and manipulate specific neuronal populations in neurological disorders Giada Pessina (University of Genoa – Genoa, Italy)

718 | tDCS promotes myelin repair and plasticity in the mouse motor cortex

Enrica Boda (University of Turin – Turin, Italy)

719 | Identifying predictors of response in Multiple Sclerosis subjects treated with anti-CD20: ocrelizumab overcomes FcyRIIIA-V158F—associated resistance

Davide Mele (University of Campania "Luigi Vanvitelli" – Naples, Italy)

722 | Maresin-1 promotes neuroprotection and modulates inflammatory responses in preclinical models of multiple sclerosis.

Giulia Carrera (IRCCS Santa Lucia Foundation/University of Rome Tor Vergata – Rome, Italy)

724 | MiR-150-5p and miR-146a-5p as biomarkers for monitoring patient-specific response to innovative targeted therapies in Myasthenia Gravis

Alessia Berni (Fondazione IRCCS Istituto Neurologico Carlo Besta – Milan, Italy)

733 | Alemtuzumab, but not ocrelizumab, induces complement-dependent cytotoxicity and increases sterile inflammatory markers in people with multiple sclerosis

Giada Maria Giunta (Fondazione IRCCS Istituto Neurologico Carlo Besta – Milan, Italy)

735 | Quantitative Analysis of AQP4 and MOG Antibodies Titres: Correlation with Relapses

Martina Nasello (University of Oxford – Oxford, UK/Sapienza University of Rome – Rome, Italy)

736 | Periprandial high fat diet feeding impacts the blood count of neutrophils via cholinergic receptor nicotinic alpha 7 activation

Giovanni Battista Vingiani (University of Milan – Milan, Italy)

737 | Establishing Stable Acetylcholine Receptor Expression in RD Cells Using the PiggyBac System: Improving Platforms for Functional Assays

Veronica Morcone (Università Cattolica del Sacro Cuore – Rome, Italy)

739 | First demyelinating attack in children: a single-center experience

Alessandro Santagostino Barbone (University of Genova – Genoa, Italy)

740 | Phenotypical analysis of innate immune system in neuropathy by antibodies anti-myelin associated glycoprotein

Anastasia Lechiara (IRCCS Ospedale Policlinico San Martino – Genoa, Italy)

742 | The role of irisin in regulating inflammasome-mediated neuroinflammation in Ab42-stimulated 3D or 2D human microglial cell lines

Marina Saresella (IRCCS Fondazione Don Carlo Gnocchi – Milan, Italy)

746 | Upregulation of the transcriptional repressor REST/NRSF as a protective mechanism against neuroinflammation in a mouse model of Multiple Sclerosis

Giorgio Grasselli (IRCCS Ospedale Policlinico San Martino/Italian Institute of Technology/University of Genoa – Genoa, Italy)



754 | Unraveling the inflammation-degeneration tangle in early MS: insights from ferritin, neurogranin, TREM2 and retinal ganglion cell layer

Annamaria Greco (University of Foggia – Foggia, Italy)

759 | Targeting astrocyte CTR1 to promote tissue homeostasis under CNS neuroinflammation Emanuela Colombo (*IRCCS San Raffaele Hospital – Milan, Italy*)

760 | Activation of Somatostatin-Expressing AgRP Neurons contribute to the pathogenesis of experimental autoimmune encephalomyelitis

Eleonora Cornacchia (University of Genoa – Genoa, Italy)

761 | Deep Spatial Phenotyping of Microglia in Human Alzheimer's Disease Brain Tissue Dusan Zencak (*Akoya Biosciences – Marlbourough, MA, USA*)

763 | Comparison between technologies and biological approaches for CSF and serum NFL quantification: a further step towards implementation in clinical practice

Cecilia Irene Bava (A.O.U. San Luigi Gonzaga – Orbassano, Italy)

764 | sNFL as additional biomarker for clinical management of multiple sclerosis

Lucia Giorgi (San Luigi Gonzaga University Hospital – Orbassano, Italy)

765 | BB-CRESM: a structured institutional biobank for quality research in Multiple Sclerosis Lucia Giorgi (*Neuroscience Institute Cavalieri Ottolenghi (NICO) – Orbassano, Italy*)

767 | ANTI-INFLAMMATORY PROPERTIES OF PLANT-DERIVED BIOACTIVE MOLECULES IN NEUROINFLAMMATORY AND NEURODEGENERATIVE DISEASES

Pallab Majumder (University of Verona – Verona, Italy)

772 | INTERLEUKIN-9 REDUCES INTERLEUKIN-1B-MEDIATED NF-kB ACTIVATION IN HUMAN MACROPHAGES AND MICROGLIA.

Simona Mazzella di Regnella (IRCSS Fondazione Santa Lucia – Rome, Italy)

777 | Inhibition of peptidylarginine deiminases reduces cognitive decline and alleviates neuropathological changes in a mouse model of Alzheimer's disease

Enrica Caterina Pietronigro (University of Verona – Verona, Italy)

778 | Organotypic brain and spinal cord slice cultures as a novel approach for investigating neuroinflammation and neurotoxicity

Antonella Calore (University of Verona – Verona, Italy)

779 | Impact of dopamine receptor D2 on immune cells - driven synaptic alterations in multiple sclerosis Alice Tartacca (University of Rome Tor Vergata – Rome, Italy)

783 | Neurofilament light chain levels quantified by Simoa[®] and Lumipulse[™]: a comparative study Vanessa Chiodega (University of Verona – Verona, Italy)

787 | Integrated analysis of transcriptomic studies identifies shared molecular signatures and therapeutic targets in MS white matter pathology

Gianmarco Abbadessa (University of Campania Luigi Vanvitelli – Naples, Italy/Imperial College London – London, UK)

Day 3 | Wednesday May 7th

Environmental factors in the onset, progression and therapy of Multiple Sclerosis *"The magic triangle"*

(09:00 - 11:00)

Chairs: Marco Salvetti (La Sapienza University - Rome, Italy) & Matilde Inglese (University of Genova – Genoa, Italy)

| 09:00-09:30 | Gut microbiota and its implication in Multiple Sclerosis: considerations on etiopathogenesis, progression and therapy Anne-Katrin Pröbstel (University of Basel – Basel, Switzerland) |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09:30-10:00 | EBV: a virological point of view could help the immunological one? David Lembo (University of Torino – Turin, Italy) |
| 10:00-10:30 | Dietary metabolites in the resolution of immune inflammation Valerio Chiurchiù (IRCCS Fondazione Santa Lucia - Rome, Italy) |
| | Oral Presentations |
| 10:30-10:42 | 720 Acute particulate matter (PM10) exposure selectively triggers behavioral alterations in the presymptomatic Experimental Autoimmune Encephalomyelitis (EAE) mouse model of Multiple Sclerosis Enrica Boda (University of Turin -Turin, Italy) |
| 10:42-10:54 | 785 Analysis of EBNA2-regulated genes in MS: a study of blood and CNS tissue Rosella Mechelli (Università San Raffaele Roma/IRCCS San Raffaele - Rome, Italy) |
| 10:54-11:06 | 741 Microbiota-derived metabolome: towards a non-invasive biomarker of multiple sclerosis Davide Maioli (University of Genoa – Genoa, Italy) |
| 11:00-11:30 | Coffee Break |

Brain borders "Avanti Savoia"

(11:30 – 13:15)

Chairs: Luca Battistini (Santa Lucia Foundation IRCCS - Rome, Italy) & Gabriela Constantin (University of Verona – Verona, Italy)

 11:30-12:00 Meningeal inflammation as a network Jonathan Kipnis (University of Washington in St. Louis – St.Louis, MO, USA)
12:00-12:30 Meningeal inflammation as a picture

Roberta Magliozzi (University of Verona – Verona, Italy)

Oral Presentations

- 12:30-12:42 **780 | Soluble CD27 is an intrathecal biomarker of T-cell-mediated lesion activity in** multiple sclerosis Maria Teresa Cencioni (*Imperial College London – London, UK*)
- 12:42-12:54 **776 | A role for neutrophil-macrophage axis in meningeal inflammation during demyelination disorders** Barbara Rossi (*University of Verona - Verona, Italy*)



| 12:54-13:06 | 710 Modulation of Nerve Growth Factor signaling impacts microglial phenotype |
|-------------|------------------------------------------------------------------------------------------|
| | Giulia Borgonovo (Bio@SNS Laboratory of Biology, Scuola Normale Superiore - Pisa, Italy) |

13:15-14:30 Lunch

Auto-antibodies mediated diseases in neurology "Merenda sinojra"

(14:30 - 17:00)

Chairs: Sara Mariotto (University of Verona – Verona, Italy) & Eleonora Virgilio (University of Torino – Turin, Italy)

- 14:30-15:00Detection and functional characterization of autoantibodies against neuronal proteins
Jakob Kreye (Charité University Medicine Berlin, Germany)
- 15:00-15:30 Antibody targets against glial surface proteins in demyelinating disorders Matteo Gastaldi (IRCCS Mondino Foundation & University of Pavia - Pavia, Italy)
- 15:30-16:00 **Pathogenic mechanism in MUSK myasthenia and other IgG4 related disorders** Maartje G Huijbers (Leiden University Medical Center - Leiden, the Netherlands)

Oral Presentations

16:00-16:12 **703** | Extensive characterization of HSV1 antibody responses in herpes encephalitis reveals compartmentalization in CSF and predicts development of post-herpes autoimmune encephalitis

Marianna Spatola (University of Barcelona, Spain and Caixa Research Institute (CRI) - Barcelona, Spain)

16:12-16:24 **714** | Identification of a Novel Metabolically Active B Cell Cluster in Refractory Myasthenia Gravis: Insights into Plasma Cell Precursors and Therapy Resistance Biomarkers

Jacopo Morroni (Fondazione Policlinico Universitario "A. Gemelli" IRCCS - Rome, Italy)

- 16:24-16:48 **744 | Complement factor C5a, and granulocyte and astrocyte markers in CSF associate with disability in myelin oligodendrocyte glycoprotein antibody-associated disease and neuromyelitis optica spectrum disorder, and differentiate in acute stages versus MS David Leppert (University Hospital and University of Basel Basel, Switzerland)**
- 16:48-17:00 **773 | Serological quantitative, qualitative and functional profiling and neurofilaments as biomarkers in autoimmune encephalitis with LGI1 and CASPR2 antibodies** Pietro Businaro (University of Pavia - Pavia, Italy)
- 17:00-17:12 **723 | FcRn Inhibition by Efgartigimod in Myasthenia Gravis: evidence for immunoregulatory effects beyond IgG reduction** Maria Cristina Tarasco (Fondazione IRCCS Istituto Neurologico Carlo Besta - Milan, Italy/ University of Milano-Bicocca - Monza, Italy)

Poster II & Coffee "New Obsession"

(17:15-18:30)

Chairs: Martina Severa (ISS - Rome, Italy) & Claudio Procaccini (EOS-CNR - Naples, Italy) & Rosella Mechelli (IRCCS San Raffaele - Rome, Italy)

699 | IL-1 β Contributes to Neurological Disability in NMOSD AQP4+ Patients

Antonio Bruno (IRCSS Neuromed – Pozzilli, Italy)



701 | Leishmania infantum Infection Inhibits NLRP3 Inflammasome Activation: An In Vitro Model for Investigating Neuroinflammation in Microglia

Francesca La Rosa (IRCCS Fondazione Don Carlo Gnocchi – Milan, Italy)

702 | Fc-glycosylation profiles in NMDAR encephalitis identify brain-compartmentalized antibody responses, predict outcomes and track with post-herpetic, tumor-related or idiopathic origin.

Marianna Spatola (University of Barcelona, Spain and Caixa Research Institute (CRI) – Barcelona, Spain)

704 | Meningeal inflammation and tertiary lymphoid-like structure as secreted hideout of latent Epstein-Barr virus infection inducing B cell expansion in multiple sclerosis

Benedetta Bellini (University of Verona – Verona, Italy)

705 | Research of anti-acetylcholine antibodies using different methods in patients clinically compatible with Myasthenia Gravis.

Anastasia Lechiara (IRCCS Ospedale Policlinico San Martino – Genoa, Italy)

708 | INVESTIGATING THE INTERACTION BETWEEN THE GENETIC RISK VARIANT BAFF-VAR AND EBV REACTIVATION IN MULTIPLE SCLEROSIS: IMPLICATIONS FOR IMMUNE DYSREGULATION Chiara Meloni (Istituto Superiore di Sanità – Rome, Italy)

713 | Epstein-Barr virus DNA detection in brain tissue sections from donors with progressive multiple sclerosis LUCIA BENINCASA (Istituto Superiore di Sanità – Rome, Italy)

721 | Understanding Acute Symptomatic Seizure secondary to Autoimmune Encephalitis: a new experimental in vitro approach.

Alessio Passalacqua (Charitè-Universitatsmedizin – Berlin, Germany)

728 | Longitudinal changes in [18F]FDG PET brain metabolism as a prognostic marker in autoimmune encephalitis Luana Benedetti (*IRCCS Ospedale Policlinico San Martino – Genoa, Italy*)

729 | Characterization of virus-induced bystander T cells in multiple sclerosis patients

Alice Verdiani (IRCSS Fondazione Santa Lucia – Rome, Italy)

730 | advancing neuromyelitis optica spectrum disorder therapy through antigen-specific regulatory t cells enrichment and cryopreservation

Sara Cestari (Experimental and Clinical Research Center (ECRC)/Charité-Universitätsmedizin/Max Delbrück Center for Molecular Medicine in the Helmholtz Association (MDC) – Berlin, Germany)

732 | Analysis of an innovative fluid biomarker panel for early prediction of Progression Independent of Relapse Activity (PIRA) in Multiple Sclerosis (MS)

Edoardo Dalmato Schilke (Fondazione IRCCS San Gerardo Dei Tintori – Monza, Italy/University of Milano-Bicocca – Milan, Italy)

734 | Early network and behavioral dysfunctions in experimental neuroinflammation: the role of IFN-gamma Laura Bellingacci (Unviersity of Perugia – Perugia, Italy)

745 | Association Between Schizophrenia Severity and Inflammatory Biomarkers: A Hospital-Based Cross-Sectional Comparative Study

susanna de stefano (Tor Vergata University Hospital/University of Rome Tor Vergata – Rome, Italy)

747 | Extracellular vesicles enhance IL4 anti-inflammatory properties in BV2 murine microglial cell line Chiara Frigè (*IRCCS Ospedale San Raffaele – Milan, Italy*)

748 | the dual role of btk inhibitors in multiple sclerosis treatment: clinical efficacy and modulation of ebv-host interactions

yuanyuan zou (Università La Sapienza – Rome, Italy)

750 | Effectiveness and Safety of Cladribine in a Real-World Multiple Sclerosis Cohort: A Single-Center Retrospective Study

Sabrina Al Qudsi (University of Genoa – Genoa, Italy)

751 | Sex differences in the humoral response to vaccine in multiple sclerosis a meta-analysis Davide Maioli (*University of Genoa – Genoa, Italy*)

755 | Vaccination with Mycobacterium Tuberculosis protects from autoimmune neuroinflammation. Alessia Lupoli (*IRCCS Ospedale San Raffaele – Milan, Italy*)

758 | Response to diphtheria and pertussis vaccination in untreated or anti-CD20 exposed Multiple Sclerosis pregnant women

Lisa De Pasquale (Istituto Superiore di Sanità – Rome, Italy/University of Modena and Reggio Emilia – Modena, Italy)

766 | Effects of Ozanimod on T cell - mediated synaptic excitotoxicity in relapsing-remitting multiple sclerosis. Federica Palmerio (University of Rome Tor Vergata/IRCCS San Raffaele Roma – Rome, Italy)

768 | John Cunningham Virus (JCV) serostatus discrepancy by two different tests: impact on the clinicians and patients choices in a cohort Multiple Sclerosis patients treated with natalizumab

Paola Cavalla (University of Turin/AOU Città della Salute e della Scienza – Turin, Italy)

769 | Longitudinal changes in gut microbiome composition in individuals with Multiple Sclerosis undergoing Dimethyl Fumarate therapy: a one-year follow-up study

Rachele Rosso (University of Turin – Orbassano, Italy)

770 | Comparative Analysis of Paranodal Antibody Assays in Autoimmune Nodopathies: Diagnostic Accuracy and Inter-Laboratory Agreement

Federica Zuliani (IRCCS Mondino Foundation – Pavia, Italy)

775 | Physical exercise modulates T cell-mediated excitotoxicity in multiple sclerosis: a potential role for the vagus nerve

alessandra Musella (University of Rome San Raffaele/IRCCS San Raffaele Roma – Rome, Italy)

781 | Diet-Induced Metabolic Reprogramming Alters Immune Responses and Disease Progression in EAE Vincenzo Di Marino (Università di Napoli "Federico II" – Naples, Italy)

786 | ANALYSIS OF THE MODULATION AND ABLATION OF S100B GENE ON GLIAL CELLS: EFFECTS ON MULTIPLE SCLEROSIS

Mariangela Ruggirello (University of Perugia – Perugia, Italy/University "Cattolica del Sacro Cuore" of Rome – Rome, Italy)

788 | KFLC index performance across MS spectrum: a monocentric study

Francesca Napoli (Tor Vergata University Hospital – Rome, Italy)

789 | Low immunoglobulin G levels influence the risk of pneumonia in a real-world cohort of Multiple Sclerosis patients treated with anti CD20 monoclonal Antibodies

Paola Cavalla (University of Turin/Health and Science City University Hospital of Turin – Turin, Italy)

Immunology of neuropsychiatric disorders "Pronfondo rosso"

Day 4 | Thursday May 8th

(09:30-11:45) Chairs: Francesco Benedetti (Ospedale San Raffaele - Milan, Italy) & Diego Centonze (Tor Vergata University - Rome, Italy) Increased inflammation in depression and other psychiatric conditions: a biological point 9:30-10:00 of view on diseases and on effectiveness of treatments Valeria Mondelli (King's College of London - London, UK) Role of innate immunity in the control of mood and cognition 10:00-10:30 Cristina Limatola (La Sapienza University - Rome, Italy) **Oral Presentations** 10:30-10:42 749 | The role of neuroaxonal damage and circuit disconnection in the pathogenesis of psychiatric symptoms in multiple sclerosis Silvia Sperandei (University of Perugia – Perugia, Italy) 10:42-10:54 752 | Immune activation during pregnancy drives TREM2 dysregulation and synaptic defects via maternal Type-I Interferon responses Matteo Bizzotto (IRCCS Humanitas Research Hospital – Milan, Italy) 10:54-11:06 700 | Apolipoprotein E regulates microglial remodeling of hypothalamic myelin in obesity Emily R McGrath (University of California – San Francisco, CA, USA) 11:06-11:18 762 | Longitudinal serum NFL and GFAP dynamics in AQP4 positive and negative NMOSD patients treated with Rituximab and Tocilizumab: a real-world experience Cecilia Irene Bava (A.O.U. San Luigi Gonzaga – Orbassano, Italy) 11:18-11:30 726 | Exploring the influence of prior disease activity in OCT dynamics after treatment onset in multiple sclerosis patients Valeria Zancan (Vall Hebron University Hospital & Research Institute (VHIR) – Barcelona, Spain/Sapienza University of Rome – Rome, Italy) 11:30-11:42 791 | Neurofilament light chains reflect grey matter pathology and intrathecal inflammation in early multiple sclerosis Francesca Gabriele (University of L'Aquila – L'Aquila, Italy)

AINI Winners, ECM & closing remarks (11:45-12:30)