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**Annual Scientific Congress  
Italian MS Society and its Foundation**

**CONNECTING MS AND OTHER RELATED DISORDERS**

**OUR PATHWAYS TO CURE**

**Rome, May 30<sup>th</sup>- 31<sup>st</sup> and June 1<sup>st</sup>, 2023**

**Hotel Villa Pamphili - Via della Nocetta 105 - Rome**

May 30<sup>th</sup>, 2023

## WORLD MS DAY

*Chairs: Francesco Vacca, Mario Alberto Battaglia*

- 10.00 – 10.20 **Francesco Vacca, Mario Alberto Battaglia**  
MS and other related disorders  
2025 Agenda: our co-responsibility
- 10.20 – 10.40 **Ministry of Health\***  
2025 Agenda: data sharing and data circulation towards  
personalized care
- 10.40 – 11.00 **Ministry of Research\***  
2025 Agenda: research scientist career paths
- 11.00 – 11.30 **Paola Zarin, Gianvito Martino, Rachele Michelacci**  
The science of sharing: the role of people affected by MS
- 11.30 – 12.30 **Francesca Mannocchi, Marco Cattaneo\***  
Right to scientific citizenship: where we are and where we are  
going
- 12.30 – 14.00 *Lunch and Poster Presentation*
- 14.00 – 15.00 Prizes and awards session**
- 14.00 – 14.45 **Rita Levi Montalcini Prize lecture**  
Gabriela Constantin
- 14.45 – 15.00 **Rita Levi Montalcini Prize**
- 15.00 – 16.00 ROUND TABLE**  
Industry partners  
2025 Agenda: shared responsibility
- 16.00 *Coffee break*
- 16.20 – 18.00 UNRECOGNIZED PROGRESSION**  
*Chairs: Gianluigi Mancardi, Maria Trojano*
- 16.20 – 16.40 **Giancarlo Comi**  
Refining our early prediction of disease trajectory in MS
- 16.40 – 17.00 **Jaume Sastre-Garriga**  
CNS reserve and silent progression: towards a better  
understanding of MS clinical progression.

- 17.00 – 17.20 **Maria Pia Amato**  
Approaching the biological onset of the disease: the prodromal phase and pediatric MS
- 17.20 – 17.40 **Marco Salvetti**  
Barcoding-MS: preparing the research ground for the years to come
- 17.40 – 18.00 **Francesco Cucca**  
The missing genetics of MS progression: failure to find or failure to exist?

**18.00 – 19.30 OTHER RELATED DISORDERS: NMOSD, MOGAD**

*Chairs: Claudio Gasperini, Elisabetta Lilli*

- 18.00 – 18.20 **Marco Capobianco**  
NMOSD: update from clinical diagnosis to therapy
- 18.20 – 18.40 **Carla Tortorella**  
MOGAD: update from clinical diagnosis to therapy
- 18.40 – 19.30 **ROUND TABLE**  
**Future research on NMOSD and MOGAD**  
*Marco Capobianco, Rosanna Cortese, Matteo Gastaldi, Sara Mariotto, Paolo Preziosa, Carla Tortorella*

May 31<sup>th</sup>, 2023

## MEETING RESEARCH PRIORITIES: THE AGENDA OF PEOPLE WITH MS AND OTHER RELATED DISORDERS

### 9.30 – 12.05 **PRIMARY PREVENTION: DISCOVERING THE CAUSES OF MS AND RISK FACTORS**

*Chairs: Gabriela Constantin, Paolo Muraro, Giovanni Ristori*

9.30 – 9.50 **Luca Battistini**

A wide view on environmental triggers in multiple sclerosis: how diet, viruses and fungi influence the immune system

9.50 – 10.05 **Sandra D'Alfonso**

Fine mapping and functional characterization of MS associated loci to dissect the pathogenetic role of drug target genes

10.05 – 10.20 **Rosella Mechelli**

Epstein-Barr virus genotypes in multiple sclerosis and their functional relevance in the disease etiology

10.05 – 10.20 **Marco Patrone**

Dissecting the molecular link between MS and Epstein-Barr nuclear antigen 2

10.35 – 10.50 **Rachele Bigi**

Looking for final effectors or regulome alterations in MS: LMP1-mediated dysregulation of AID in MS pathogenesis

10.50 – 11:05 **Roberta Rizzo**

Herpesvirus infections in KIR2DL2 positive multiple sclerosis patients: mechanisms triggering autoimmunity

11.05 *Coffee break*

11.20 – 11.35 **Cinthia Farina**

Mechanisms of astrocyte control in neuroinflammation

11.35– 11.50 **Giuseppe Locatelli**

Deciphering phagocytes in multiple sclerosis: invading routes, in situ dynamics, and regulation by insulin-like growth factor 1

11.50 – 12.05 *Discussion and conclusions*

*Chairs: Gabriela Constantin, Paolo Muraro, Giovanni Ristori*

**12.05 – 13.10 SECONDARY PREVENTION: DIAGNOSIS AND DISEASE MONITORING**

*Chairs: Matilde Inglese, Benedetta Bodini*

- 12.05 – 12.25 **Benedetta Bodini**  
Decoding the roots of neurodegeneration: insights from advanced MRI and PET
- 12.25 – 12.40 **Laura Bonzano**  
Interhemispheric information transfer in multiple sclerosis: a multimodal approach of TMS-EEG coregistration, MRI and bimanual coordination
- 12.40 – 12.55 **Giacomo Boffa**  
Contribution of grey matter demyelination to neuronal damage evaluated with [<sup>11</sup>C]Flumazenil Positron Emission Tomography in multiple sclerosis
- 12.55 – 13.10 *Discussion and conclusions*  
*Chairs: Matilde Inglese, Benedetta Bodini*

**13.10 – 14.40 Lunch and Poster Presentation**

**14.40 – 18.30 SECONDARY PREVENTION: STOPPING MS**

*Chairs: Roberto Furlan, Stefano Previtalli, Claudia Verderio*

- 14.40 – 15.00 **Florian Von Raison**  
Lost in translation : which experimental models to use ? An industry perspective
- 15.00 – 15.15 **Maria Pia Abbracchio**  
Innovative re-myelinating strategies for multiple sclerosis via the exploitation of the new oligodendrocyte receptor GPR17
- 15.15 – 15.30 **Maria Letizia Trincavelli**  
Crystal structure and functional characterization of the GPR17 receptor, a novel pharmacological target for remyelination therapy in multiple sclerosis
- 15.30 – 15.45 **Stefano Pluchino**  
Characterization and manipulation of the metabolic pathways driving chronic neuroinflammation
- 15.45 – 16.00 **Cristina Agresti**  
Identification and validation of edaravone remyelinating targets in oligodendrocyte progenitor cells
- 16.00 – 16.15 **Marta Boccazzi**  
Differential response of oligodendrocyte progenitor cells and immature oligodendrocytes to demyelination: implications for novel strategies to improve remyelination
- 16.15 – 16.30 **Elisabetta Coppi**  
A2B adenosine receptors modulate K<sup>+</sup> currents necessary to oligodendroglial differentiation and myelin deposition: involvement of Sphingosine-1-phosphate signaling pathway

16.30 *Coffee break*

16.45 – 17.00 **Silvia Marena**

Transcranial direct current stimulation applied to prevent optic nerve damage and to promote remyelination in experimental autoimmune encephalomyelitis mouse model

17.00 – 17.15 **Giuseppe Cappellano**

Binding of osteopontin to its newly identified receptor ICOSL: exploring their Relevance and Activity IN EAE (BRAIN-EAE)

17.15 – 17.30 **Carlotta Granchi**

Targeting the endocannabinoid system to fight multiple sclerosis: monoacylglycerol lipase degradation by PROTACs

17.30 – 17.45 **Daniela Marasco**

Design and functional investigations of the therapeutic efficacy of novel SOCS1 mimetics in multiple sclerosis

17.45 – 18.00 **Loretta Tuosto**

Selective targeting of CD28 costimulatory molecule as a therapeutic strategy for preventing inflammatory responses of T helper cells induced by viral and bacterial superantigens in MS patients

18.00 – 18.15 **Ildiko Szabo**

Towards specific elimination of autoreactive pathogenic T lymphocytes implicated in multiple sclerosis

18.15 – 18.30 *Discussion and conclusions*

*Chairs: Roberto Furlan, Stefano Previtati, Claudia Verderio*

**20.30 Social Dinner**

June 1<sup>st</sup>, 2023

**MEETING RESEARCH PRIORITIES: THE AGENDA OF PEOPLE WITH MS AND OTHER RELATED DISORDERS**

**9.00 – 9.15** **Giampaolo Brichetto**  
Highlights from 2023 Rehabilitation in Multiple Sclerosis annual Conference

9.15 – 9.30 **Ludovico Pedullà**  
ALAMEDA project

**9.15 – 11.25** **TERTIARY PREVENTION: NEUROREHABILITATION AND QUALITY OF LIFE**

*Chairs: Marco Bove, Monica Falautano, Luca Prosperini*

9.30 – 9.50 **Diego Centonze**  
Neurophysiological treatments to restore function

9.50– 10.05 **Ambra Bisio**  
Can action observation and motor imagery training cause fatigability in MS? Assessment of their feasibility in the progressive forms

10.05 – 10.20 **Giampiero Merati**  
Assessing heat sensitivity in multiple sclerosis: combined use of questionnaire and functional testing

10.20 – 10.35 **Sofia Straudi**  
The role of video games therapy on balance and cognitive functions in mild to moderate impaired multiple sclerosis patients. A randomized control trial

10.35 – 10.50 **Marco Caimmi**  
A multicenter single-blind pilot study for evaluating the activity and the efficacy of ASSISTarmMS, an exoskeleton, on upper-limb related ADL in MS patient

10.50 – 11.05 **Marco Cambiagli**  
Depression and multiple sclerosis: a pilot study to explore the effects of tDCS on neuro-glia interaction in the EAE model

11.05 – 11.25 *Discussion and conclusions*  
*Chairs: Marco Bove, Monica Falautano, Luca Prosperini*

11.25 *Coffee break*

**11.40 – 13.00** **THE ITALIAN NEUROIMAGING NETWORK INITIATIVE (INNI)**

*Chairs: Massimo Filippi, Gioacchino Tedeschi*

11.40 – 12.00 **Massimo Filippi**  
INNI: new imaging of MS research

- 12.00 – 12.15 **Elisabetta Pagani**  
Moving atrophy quantification for research setting to clinical practice
- 12.15 – 12.30 **Patrizia Pantano**  
The impact of functional connectivity changes on disease progression and disability accumulation
- 12.30 – 12.45 **Nicola De Stefano**  
Large-scale, multi-centre assessment of hippocampal volume in MS patients
- 12.45 – 13.00 **Antonio Gallo**  
Structural and functional MRI determinants of cognitive-radiological mismatch in MS patients

**13.00 – 14.30** *Lunch and Poster Presentation*

**14.30 – 16.45** **MULTIPLE SCLEROSIS AND RELATED DISORDERS ITALIAN REGISTER**

*Chairs: Mario Alberto Battaglia, Maria Trojano*

- 14.30 – 14.45 **Mario Alberto Battaglia**  
Introduction
- 14.45 – 15.00 **Roberto Bergamaschi**  
Early prediction of unfavorable evolution of Clinically Isolated Syndrome (CIS) patients
- 15.00 – 15.15 **Maria Pia Amato**  
Assessing early clinical and MRI predictors of treatment response in pediatric multiple sclerosis patients
- 15.15 – 15.30 **Maria Trojano**  
Big Multiple Sclerosis Data (BMSD) network
- 15.30 – 15.45 **Pietro Iaffaldano**  
EPID-MS Evaluation of the drivers of the therapy switch in active RRMS and active SPMS patients
- 15.45 – 16.00 **Matilde Inglese**  
Autologous Hematopoietic Stem Cell Transplantation For Secondary Progressive Multiple Sclerosis: a comparative study with matched control patients from the Italian Multiple Sclerosis Register
- 16.00 – 16.15 **Damiano Paolicelli**  
PROfiling the risk of Severe Adverse Events during sequencing therapies in patients with multiple sclerosis: an observational cohort analysis based on Italian Multiple Sclerosis Registry.
- 16.15 – 16.30 **Marco Capobianco**  
Multiple sclerosis disease activity and SARS-COV2 pandemic: a population based study from the Italian MS Registry



16.30 – 16.45

**Antonio Gallo**

OCREVID Study: the management of OCRElizumab during the COVID-19 pandemic in Italy

## **CONCLUSIONS**