

—● Connecting **MS**



# OUR PATHWAYS TO CURE

ROME  
30 MAY  
01 JUNE  
2023

## Annual Scientific Congress

**ITALIAN MS SOCIETY  
AND ITS FOUNDATION**

*Hotel Villa Pamphili Roma  
Via della Nocetta, 105 - Roma*

**SCLE  
ROSI  
MULT  
IPLA**  
associazione  
italiana

un mondo  
libero dalla SM

AISM. INSIEME, UNA CONQUISTA DOPO L'ALTRA



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 **Giuseppe Ippolito**  
*General Director of Research and Innovation  
in Healthcare of the Ministry of Health  
2025 Agenda: data sharing and data  
circulation towards personalized care*
- 10.40 – 11.00 **Luigi Pievani**  
*Director of III office of the General Secretariat  
of the Ministry of University and Research  
2025 Agenda: research scientist career  
paths*
- 11.00 – 11.30 **Francesca Mannocchi**  
*Right to scientific citizenship: where we are  
and where we are going*
- 11.30 – 12.30 **Rachele Michelacci, Gianvito Martino,  
Paola Zaratini**  
*The science of sharing: the role of people  
affected by MS*
- 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

Chairs: Mario Alberto Battaglia,  
Paola Zarin

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**  
*NMSOD: 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>st</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*

10.20 – 10.35 **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**



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

Chairs: Roberto Furlan, Stefano Previtali,  
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 remyelinating 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**



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- 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 Previtali, 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 – 16.45 **OUR PATHWAYS TO CURE:  
THE IMPACT OF DATA  
SHARING**

11.40 – 11.50 **Mario Alberto Battaglia**  
*Introduction*

11.50 – 13.10 **The Italian Neuroimaging  
Network Initiative (INNI)**  
Chairs: Massimo Filippi,  
Mario Alberto Battaglia

11.50 – 12.10 **Massimo Filippi**  
*INNI: new imaging of MS research*

12.10– 12.25 **Elisabetta Pagani**  
*Moving atrophy quantification for research setting to clinical practice*

12.25 – 12.40 **Patrizia Pantano**  
*The impact of functional connectivity changes on disease progression and disability accumulation*





12.40 – 12.55 **Nicola De Stefano**  
*Large-scale, multi-centre assessment  
of hippocampal volume in MS patients*

12.55 – 13.10 **Antonio Gallo**  
*Structural and functional MRI  
determinants of cognitive-radiological  
mismatch in MS patients*

13.10 – 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 **Maria Trojano**  
*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*



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- 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



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