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San Raffaele



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Neuroimaging Research Unit  
Division of Neuroscience,  
IRCCS San Raffaele Scientific Institute and Vita-Salute San Raffaele University

# Magnetic Resonance Techniques in Multiple Sclerosis

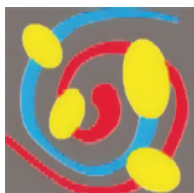
Twenty-fourth Advanced Course

SCIENTIFIC PROGRAM

CME ACCREDITED COURSE

Milan, 17-18 November 2022

IRCCS San Raffaele Scientific Institute  
Via Olgettina, 60 - 20132 Milan, Italy



# MAGNETIC RESONANCE TECHNIQUES IN MULTIPLE SCLEROSIS

Twenty-fourth Advanced Course  
Milan, 17-18 November 2022

## **PRESIDENT:**

*Massimo Filippi*

## **SCIENTIFIC COMMITTEE:**

*Massimo Filippi*

*Maria A. Rocca*

## **ORGANIZING SECRETARIAT:**

*Paolo Preziosa*

*Lucia Zonca*

## **FACULTY MEMBERS**

*Georgina Arrambide, Barcelona, Spain*

*Benedetta Bodini, Paris, France*

*Sara De Biasi, Modena, Italy*

*Nicola De Stefano, Siena, Italy*

*Massimo Filippi, Milan, Italy*

*Claudio Gasperini, Rome, Italy*

*Cristina Granziera, Basel, Switzerland*

*Simon Hametner, Vienna, Austria*

*Jens Kuhle, Basel, Switzerland*

*Monica Margoni, Milan, Italy*

*Paolo Muraro, London, UK*

*Fredrik Piehl, Stockholm, Sweden*

*Paolo Preziosa, Milan, Italy*

*Maria A. Rocca, Milan, Italy*

*Jaume Sastre-Garriga, Barcelona, Spain*

*Menno M. Schoonheim, Amsterdam, Netherlands*

*Alessandra Solari, Milan, Italy*

## THE BEGINNING OF MS

14.00-14.05 Welcome and introductory remarks  
*Massimo Filippi*

## SESSION I

### MS BEGINNING: BEYOND THE CLASSICAL CLINICAL PHENOTYPES

*Chairs: M. Filippi, J. Sastre-Garriga*

14.05-14.30 The clinical perspective: RIS, prodromic MS, pediatric MS, late-onset MS, benign MS and aggressive MS  
*Georgina Arrambide (Barcelona, Spain)*

14.30-14.50 The immunological perspective: maturation and senescence of the immune system  
*Sara De Biasi (Modena, Italy)*

14.50-15.10 The pathological viewpoint  
*Simon Hametner (Vienna, Austria)*

15.10-15.30 Body fluid biomarkers  
*Jens Kuhle (Basel, Switzerland)*

15.30-15.50 Beyond EDSS and relapses: cognition, quality of life, patients' reported outcomes  
*Alessandra Solari (Milan, Italy)*

15.50-16.10 Coffee break

## SESSION II

### MS BEGINNING: THE IMAGING PERSPECTIVE

*Chairs: C. Granziera, C. Gasperini*

- 16.10-16.30 Focal lesions: location, features, evolution  
*Monica Margoni (Milan, Italy)*
- 16.30-16.50 White matter damage and repair: substrates and tools  
*Menno M. Schoonheim (Amsterdam, Netherlands)*
- 16.50-17.10 Gray matter damage and repair: substrates and tools  
*Nicola De Stefano (Siena, Italy)*
- 17.10-17.30 Network efficiency and collapse  
*Maria A. Rocca (Milan, Italy)*
- 17.30-18.00 Round Table and Concluding remarks  
*All*

## THE CHANGING THERAPEUTIC SCENARIO

### SESSION III

#### THE CLINICAL PERSPECTIVE

*Chairs: M. Filippi, J. Kuhle*

- 9.00-9.30      When and how to treat: induction vs escalation  
*Fredrik Piehl (Stockholm, Sweden)*
- 9.30-10.00    HSCT: rescue strategy after DMT failure or early option in highly active naïve patients?  
*Paolo Muraro (London, UK)*
- 10.00-10.30   Novel therapeutic targets  
*Jaume Sastre-Garriga (Barcelona, Spain)*
- 10.30-11.00   Coffee break

### SESSION IV

#### THE IMAGING PERSPECTIVE

*Chairs: M.A. Rocca, G. Arrambide*

- 11.00-11.30   Monitoring treatment response: the classic paradigm  
*Claudio Gasperini (Rome, Italy)*
- 11.30-12.00   Smoldering inflammation and silent progression: a therapeutic goal?  
*Paolo Preziosa (Milan, Italy)*
- 12.00-12.30   Novel MRI outcomes: meningeal inflammation, remyelination, neuroprotection  
*Cristina Granziera (Basel, Switzerland)*
- 12.30-13.00   PET: what is the role?  
*Benedetta Bodini (Paris, France)*
- 13.00-13.15   Concluding remarks  
*Massimo Filippi*
- 13.15-14.30   Farewell cocktail

# General Information

## REGISTRATION

Registration is free and includes admission to scientific sessions, conference materials, coffee breaks, lunch and certificate of attendance.

## HOW TO REGISTER

All participants are kindly recommended to register via the online registration form at [www.biomedica.net](http://www.biomedica.net)

## CONTINUING MEDICAL EDUCATION (ECM only for Italian participants)

The event addresses to the disciplines of Neurology, Neurophysiopathology, Neuroradiology and Physical medicine and rehabilitation.

Professional Category: Physicist, Physiotherapist, Physician, Psychologist, Neurophysiology Technician, Radiology Technician.

In order to obtain credits, participants must attend the full educational programme (90% of the meeting) and pass the final learning test available on line at [www.biomedica.net](http://www.biomedica.net).

Provider: Biomedica srl

Id: **148** | nr. **356487** - nr. credits: **8**

## CERTIFICATE OF ATTENDANCE

A certificate of attendance will be available online after the meeting at <https://elearning.biomedica.net>

## OFFICIAL LANGUAGE

English. Simultaneous translation service is not provided.

## CONGRESS VENUE

San Raffaele Scientific Institute - Aula San Raffaele  
Via Olgettina, 60 - 20132 Milano, Italy

## HOW TO REACH THE VENUE

**Motorways:** San Raffaele Congress Centre can be reached by all motorways, following the direction "Tangenziale Est" (East ring road) till Cascina Gobba exit.

**Subway:** San Raffaele Congress Centre is connected to Milan by green subway line. The subway stop is Cascina Gobba.

**Railway:** Milano Central Railway Station is connected to San Raffaele Congress Centre by subway (green line).

**Airports:** Malpensa Airport (50 km) and Linate Airport (5km) are connected to San Raffaele Congress Centre by railway, bus or taxi.



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Unrestricted Educational Grant

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