

# International Workshop on Antibody-Mediated Neurological Diseases

19 October 2024  
Rome, Italy

## Preliminary Programme

An educational programme by



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## Overview

The International Workshop on Antibody-Mediated Neurological Diseases is set as a key event to update the medical-scientific community on the latest developments in the field of antibody-mediated neurological disorders. With a specific focus on conditions such as myasthenia gravis, autoimmune encephalitis, and neuromyelitis optica spectrum disorders, the workshop aims to provide a holistic understanding that ranges from pathogenesis to the latest innovations in diagnostic and therapeutic fields. Particular emphasis will be given to diagnostic challenges, through the analysis of complex clinical cases and the illustration of how new technologies are revolutionizing the study of autoimmune neurological diseases. The workshop intends to stimulate constructive and interdisciplinary dialogue, promoting integration between clinical practice and advanced biotechnologies.

The event promises to be a unique opportunity for multidisciplinary learning and for creating professional networks, essential to effectively respond to the challenges posed by antibody-mediated neurological diseases.

## Learning Objectives

- Provide a comprehensive update on the latest research and discoveries in antibody-mediated neurological diseases.
- Discuss in-depth advances in biomarkers, diagnostic techniques, and therapeutic strategies for these conditions.
- Analyze diagnostic challenges, including differential diagnoses, through the exploration of detailed clinical cases.
- Illustrate the use of new technologies in the study and management of autoimmune neurological diseases.
- Encourage collaboration and the exchange of ideas among professionals from various medical, scientific, and technological disciplines.

## Target Audience

The workshop is designed for:

- Medical trainees and specialists in Neurology, Psychiatry, and Child Neuropsychiatry.
- Medical specialists in Ophthalmology, Infectious Diseases, Microbiology, Radiology, Pathological Anatomy, Anesthesia and Resuscitation, Hematology, and Oncology.
- PhD candidates and researchers in Neuroscience, Biologists, Biotechnologists, and Psychologists.
- Laboratory and neurophysiopathology technicians.
- Nurses specialized in neurosciences and neurological diseases.

# Scientific Organizer

**Raffaele Iorio**

Department of Neuroscience  
Università Cattolica del Sacro Cuore  
Rome, Italy

# Endorsements

This educational activity is endorsed by:



# CME Accreditation

The Programme will be submitted for CME accreditation to the Italian Ministry of Health (MoH) and the European Academy for Continuous Medical Education (EACC-ME).

# Scientific Secretariat

## Med-Ex Learning

Rome, Italy

For any info please contact [alessia.addressi@medexlearning.com](mailto:alessia.addressi@medexlearning.com)



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# Registration

Registration is free of charge and limited places are available.

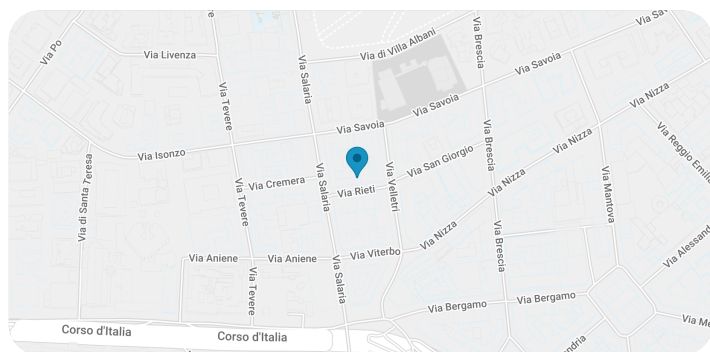
Please register [here](#)

# Venue

## Auditorium Via Rieti

Via Rieti 13

Rome, Italy



# Preliminary Programme

**08:30 - 08.40** Welcome Address  
**P. Calabresi, Italy - A. Evoli, Italy - R. Iorio, Italy**

**Chairmen: P. Calabresi, Italy - R. Iorio, Italy**

**08.40 - 09.00** Keynote Speech: The role of B cells in Neurological Autoimmunity  
**K. O'Connor, USA**

## **Session 1: Myasthenia Gravis**

**Chairmen: C. Antozzi, Italy - M.P. Giannoccaro, Italy**

**09.00 - 09.20** Diagnostic and Therapeutic Challenges in Myasthenia Gravis  
**A. Evoli, Italy**

**09.20 - 09.40** The role of complement activation in myasthenia gravis: looking for biomarkers  
**S. Hoffmann, Germany**

**09.40 - 10.00** Immunopathogenesis of MuSK-MG  
**M.G. Huijbers, The Netherlands**

**10.00 - 10.20** Cellular immunotherapies for Myasthenia Gravis  
**A. Payne, USA**

**10.20 - 10.35** Q&A

**10.35 - 10.55** *Coffee Break*

## **Session 2: Neuromyelitis Optica Spectrum Disorders (NMOSD)**

**Chairmen: S. Mariotto, Italy - E. Sechi, Italy**

**10.55 - 11.15** Immunopathogenesis of MOGAD and AQP4 Autoimmune Disorders: Insights for Improving Treatment Outcomes  
**R. Marignier, France**

**11.15 - 11.35** Diagnostic and therapeutic challenges in MOGAD and AQP4 Autoimmunity  
**A. Cobo Calvo, Spain**

**11.35 - 11.55** Traditional and advanced Neuroimaging in MOGAD and AQP4 Autoimmunity  
**R. Cortese, Italy**

**11.55 - 12.10** Q&A

**12.10 - 13.10** *Lunch*

### **Session 3: Autoimmune Encephalitis**

Chairmen: M. Gastaldi, Italy - L. Zuliani, Italy

- 13.10 - 13.30** The Complex Interplay between Genetics and Environment in the pathogenesis of Autoimmune encephalitis  
**S. Muñiz Castrillo, Spain**
- 13.30 - 13.50** Pathogenic mechanisms of Autoimmune Encephalitis  
**M. Spatola, Spain**
- 13.50 - 14.10** Human recombinant monoclonal antibodies and CAAR-T cells in Autoimmune Encephalitis  
**H. Pruss, Germany**
- 14.10 - 14.30** Unity is Strength: how Collaboration Networks can advance the field of Autoimmune Encephalitis  
**F. Leypoldt, Germany**
- 14.30 - 14.55** Q&A
- 14.55 - 15.15** *Coffee Break*

### **Session 4: Harnessing Novel Technologies to Unravel Neurological Autoimmunity**

Chairmen: R. Iorio, Italy - A. Vogrig, Italy

- 15.15 - 15.35** Thymic organoids: opportunities and challenges to study central tolerance  
**S. Lim, The Netherlands**
- 15.35 - 15.55** The impact of structural biology on understanding the pathogenic mechanisms of autoimmune neurological diseases  
**C. Novello, USA**
- 15.55 - 16.15** Single-cell multiomics to investigate antibody-mediated neurological diseases  
**B. Schreiner, Switzerland**
- 16.15 - 16.30** Q&A
- 16.30** Closing Remarks
- 16.40** End of the workshop

## Call for Posters

We invite submissions for **Posters that address topics and issues involving antibody-mediated neurological diseases.**

We encourage you to submit your work [here](#) by **September 10th, 2024.**

A limited number of posters could be selected and will be presented during the Workshop

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