

International Workshop on Antibody-Mediated Neurological Diseases

19 October 2024
Rome, Italy

Scientific 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:

Gemelli



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CME Accreditation

The Programme has been submitted for CME accreditation to the European Accreditation Council for Continuing Medical Education (EACCME) both for in presence and remote attendance and it is accredited by the Italian Ministry of Health for in presence attendees by the CME provider SMM srl (Id. 5129) as follows:

Event number: 425011 - CME Credits: 6

Scientific 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. Giannocco, 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

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