



**ETTORE MAJORANA FOUNDATION AND
CENTRE FOR SCIENTIFIC CULTURE**

TO PAY A PERMANENT TRIBUTE TO ARCHIMEDES AND GALILEO GALILEI, FOUNDERS OF MODERN SCIENCE
AND TO ENRICO FERMI, THE "ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES



International School of Precision Medicine and Laboratory Medicine

Directors: Prof. Marcello Ciaccio, Prof. Francesco Salvatore

4th Course ALZHEIMER'S DISEASE IN THE ERA OF PRECISION MEDICINE: FROM SCREENING TO THERAPY

Directors of the Course:

Prof. Marcello Ciaccio, Prof. Alessandro Padovani

ERICE - TRAPANI - SICILY

17 October 2025



un evento
organizzato da



BIO MEDIA
La condivisione del sapere

PURPOSE OF THE COURSE

Alzheimer's Disease (AD) remains one of the most pressing public health challenges of our time, with rising prevalence due to global population aging and no definitive cure currently available. Traditionally considered a uniform clinical entity, AD is now recognized as a biologically heterogeneous condition with diverse trajectories, underpinned by complex interactions between genetic, molecular, environmental, and lifestyle factors.

The era of Precision Medicine has opened a new frontier in the fight against Alzheimer's Disease. By shifting from a one-size-fits-all approach to a model that considers individual variability in genes, biomarkers, and disease progression, Precision Medicine offers the promise of earlier diagnosis, more accurate risk stratification, and tailored therapeutic strategies.

Recent advances in fluid biomarkers, neuroimaging, genomics, and artificial intelligence are transforming both research and clinical practice. Blood-based biomarkers along with novel imaging tracers and digital cognitive assessments, are enabling earlier and more accessible detection. Meanwhile, the development of targeted treatments, including anti-amyloid and anti-tau therapies, is paving the way for disease-modifying interventions—potentially altering the course of AD.

This evolving landscape demands close collaboration between neurologists, clinical biochemists, laboratory specialists, and researchers.

By fostering interdisciplinary dialogue, the course aims to bridge the gap between bench and bedside, preparing healthcare professionals to navigate the complexities of Alzheimer's Disease in this new era of precision health.

SCIENTIFIC COMMITTEE

Marcello Ciaccio
Alessandro Padovani
Lucilla Parnetti
Francesco Salvatore
Mario Zappia

SCIENTIFIC SECRETARY

Luisa Agnello
Anna Maria Ciaccio
Lorenzo Gaetani
Caterina Maria Gambino
Andrea Pilotto
Concetta Scazzone

ORGANIZING COMMITTEE

Francesco Cacciabaudo
Rosaria Vincenza Giglio
Anna Masucci
Silvia Matraccia
Sabrina Novara
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Roberta Vassallo

Gruppo di Studio SIN «Biomarcatori in Neurologia»
Gruppo di Studio SIBioC-Medicina di Laboratorio «Biomarcatori in Neurologia»

Con il patrocinio di



Università
degli Studi
di Palermo



SIBioC
Medicina di Laboratorio ETS



Sin
SOCIETÀ ITALIANA DI NEUROLOGIA

Sindem
Associazione Autonoma Aderente
alla SIN per le Demenze

FACULTY

Luisa Agnello, Palermo

Federica Agosta, Milano

Alberto Benussi, Trieste

Valentina Bessi, Firenze

Marco Bozzali, Torino

Filippo Brighina, Palermo

Annachiara Cagnin, Padova

Marcello Ciaccio, Palermo

Lorenzo Gaetani, Perugia

Cesare Gagliardo, Palermo

Marcello Moccia, Napoli

Alessandro Padovani, Brescia

Tommaso Piccoli, Palermo

Andrea Pilotto, Brescia

Giuseppe Salemi, Palermo

Francesco Salvatore, Napoli

Marina Turco, Palermo

Antonino Tuttolomondo, Palermo

Laura Vernuccio, Palermo

Martina Zaninotto, Padova

Mario Zappia, Catania

- 09:30 **Opening remarks**
- Welcome address by Authorities and Academicians**
- 10:00 **Keynote Lecture**
The revolution of Laboratory Medicine in Alzheimer's Disease: from post-mortem to blood-based diagnosis
Alessandro Padovani (Brescia)
Chair: Marcello Ciaccio (Palermo)
- Alzheimer's Disease Screening: Utopia or Reality?**
Chair: Francesco Salvatore (Napoli), Mario Zappia (Catania)
- 10:45 **Circulating biomarkers in early screening**
Lorenzo Gaetani (Perugia)
- 11:05 **Genetic risk factors and personalized risk scores**
Marcello Moccia (Napoli)
- 11:25 **Early detection of Alzheimer's Disease: the case of Subjective Cognitive Decline**
Valentina Bessi (Firenze)
- 11:45 Discussion
- 12:00 **Round Table**
Multidisciplinary Collaboration for optimal Alzheimer's Patient care: Experts in discussion
Discussant: Marina Turco (Palermo)
Partecipant: Marcello Ciaccio, Alessandro Padovani, Mario Zappia, Laura Vernuccio, Francesco Salvatore, Marco Bozzali, Federica Agosta, Annachiara Cagnin, Filippo Brighina, Antonino Tuttolomondo, Tommaso Piccoli
- 13:00 *Light lunch*

Integrating Clinical Medicine and Laboratory Medicine: toward accurate diagnosis and prognosis in Alzheimer's Disease

Chair: Marco Bozzali (Torino), Annachiara Cagnin (Padova)

- 14:15 **ATX(N) framework and its application in routine practice**
Martina Zaninotto (Padova)
- 14:35 **Neuroimaging advances**
Cesare Gagliardo (Palermo)
- 14:55 **Promoting Laboratory-Neurology collaboration in prognostic modeling**
Andrea Pilotto (Brescia)
- 15:15 Discussion
- Targeted therapies and personalized interventions in Alzheimer's Disease**
Chair: Giuseppe Salemi (Palermo), Laura Vernuccio (Palermo)
- 15:30 **The Role of Laboratory Medicine in the Landscape of Alzheimer's Disease Treatment**
Luisa Agnello (Palermo)
- 15:55 **Anti-amyloid therapies: opportunities and challenges from real-world experience**
Federica Agosta (Milano)
- 16:15 **Future directions in anti-tau and neuroprotective interventional strategies**
Alberto Benussi (Trieste)
- 16:35 Discussion
- 16:45 **Closing Remarks and end of the Course**

CONGRESS VENUE

ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
Piazzetta S. Domenico
91016 ERICE (Sicily) – Italy

REGISTRATION

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

CONTINUING MEDICAL EDUCATION

Provider: BIOMEDIA – N. 148
N. ECM: **460481**

Professional Category: Biologist, Chemist, Medical Doctor, Biomedical Laboratory Technician.

Hours of training: **6**
Credits: **4,2**

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 on the site <https://elearning.biomedica.it/>

Test will be on-line from 17th October to 20th October 2025

CERTIFICATE OF ATTENDANCE

A certificate of attendance will be available online after the meeting in MyLogin area on <https://elearning.biomedica.it>

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