



«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

3th Course CLINICAL LABORATORY MEDICINE IN THE THIRD MILLENNIUM: CHALLENGES AND OPPORTUNITIES

*Directors of the Course:
Prof. Marcello Ciaccio, Prof. Mario Plebani, Prof. Francesco Salvatore*



ERICE - TRAPANI - SICILY
16-17 December 2024

un evento
organizzato da



BIO MEDIA
La condivisione del sapere

PURPOSE OF THE COURSE

Laboratory Medicine has a pivotal role in Clinical Medicine, from screening to diagnosis, prognosis, monitoring, and guiding and monitoring therapy. It is a constantly evolving branch of Medicine and technology represents the common thread. Significant progress has been achieved in the last decades, which has revolutionized the aims of Laboratory Medicine, switching from a specimen-centered to a patient-centered vision, paving the way toward Precision and Personalized Medicine.

The purpose of the Course is to discuss the critical role of Clinical Laboratory Medicine in the Third Millennium by underlying challenges and opportunities.

The main topics of the Course are health and pathological aging, artificial intelligence, and harmonization., which represent essential issues in the Medicine of the third millennium.

SCIENTIFIC COMMITTEE

*Giuseppe Banfi
Marcello Ciaccio
Mario Plebani
Francesco Salvatore*

SCIENTIFIC SECRETARY

*Luisa Agnello
Federica Di Maggio
Martina Montagnana*

ORGANIZING COMMITTEE

*Anna Maria Ciaccio
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**Università
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Tommaso Trenti (Modena)

Marina Turco (Palermo)

Francesco Vaia (Rome)

Paolo Villari (Rome)

Eustachio Vitullo (Matera)

Martina Zaninotto (Padua)

14:00

Opening remarks

Welcome address by Authorities and Academicians

Keynote Lecture

14:30

Cholangiocytes, liver stem cells, cholangiopathies and cholangiocarcinoma:
from bench to bedside

Eugenio Gaudio (Rome)

Chair: Francesco Salvatore (Naples)

The landscape of aging

Chair: Francesco Salvatore (Naples), Antonio Russo (Palermo)

15:15

New challenges of Laboratory Medicine due to population aging

Daniela Capello (Novara)

15:35

Age-related changes in laboratory test results

Martina Montagnana (Padua)

15:55

**Preventing a chronic inflammatory disease against progressive aging:
the model of rheumatoid arthritis**

Piero Ruscitti (L'Aquila)

16:15

Discussion

16:30

Coffee Break

16:45

Round Table

**The future of Clinical Laboratory Medicine in the healthcare and clinical
research of the third millennium: promoting integrative diagnostics**

Discussant: Marina Turco

*Partecipant: Giuseppe Castaldo, Marcello Ciaccio, Carlo Della Rocca,
Silvio Garattini, Giuseppe Lippi, Massimo Midiri, Teresa Palamara, Mario
Plebani, Claudio Ronco, Antonio Russo, Francesco Salvatore, Paolo Villari*

Artificial Intelligence in the Clinical Laboratory: regulation and application

Chair: Anna Carobene (Milan), Giuseppe Banfi (Milan)

18:00

Laboratory medicine and artificial intelligence: is it Wéijī?

Francesco Curcio (Udine)

18:20

Artificial Intelligence and Machine Learning in laboratory medicine: state of the art and applications

Fabio Del Ben (Aviano)

18:40

Artificial intelligence in healthcare: a critical analysis of the legal and ethical implications

Alice Pisapia (Varese)

19:00

Discussion

Keynote Lecture

09:00

Prevention is revolution

Silvio Garattini (Milan)

Chair: Marcello Ciaccio (Palermo)

Critical role of Laboratory Medicine in high-incidence diseases

Chair: Vincenzo De Laurenzi (Chieti), Maria Grazia Perilli (L'Aquila)

09:45

AKI diagnosis: from clinical to molecular approach

Claudio Ronco (Padua)

10:05

The importance of screening for thrombophilia

Paolo Simioni (Padua)

10:25

Antibodies for the screening of type I diabetes and celiac disease: preliminary data of the project The D1Ce Screen Project – ISS

Damiana Pieragostino (Chieti)

10:45

The role of Laboratory in the Monkeypox Virus Infection

Giuseppe Lippi (Verona)

11:05

Discussion

11:15

Keynote Lecture

Active ageing: the role played by primary prevention as a sustainability system

Francesco Vaia (Rome)

Chair: Francesco Salvatore (Naples)

The link between research and Laboratory Medicine

Chair: Giuseppe Banfi (Milan), Eustachio Vitullo (Matera)

12:00

Nanotechnology in diagnosis: progress, challenges, and opportunities

Miriam Colombo (Milan)

12:20

In vitro produced platelets: towards diagnostic and clinical use

Alessandra Balduini (Padua)

12:40

Intrinsic limitation of the cut-off values for vitamin D: metabolic approaches for a functional assessment

Giovanni Lombardi (Milan)

13:00

Discussion

13:15

Lunch

Keynote Lecture

- 14:30 **A «small» revolution in Medicine: from the causes of Aging to Personalized Earlier Prevention**
Francesco Salvatore (Naples)
Chair: Mario Plebani (Padua)
- Harmonization in Clinical Laboratory Medicine: current and future strategies**
Chair: Tommaso Trenti (Modena), Antonio Fortunato (Ascoli Piceno)
- 15:15 **Harmonization in laboratory medicine: more than clinical chemistry?**
Mario Plebani (Padua)
- 15:35 **Promoting clinical and laboratory interaction by harmonization**
Laura Sciacovelli (Padua)
- 15:55 **An overview of harmonization activities in Europe**
Martina Zaninotto (Padua)
- 16:15 Discussion
- 16:30 **Closing remarks and end of the Course**

INFORMAZIONI GENERALI

CONGRESS VENUE

ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
Via Guarnotta, 26
91016 ERICE (Sicily) – Italy

REGISTRATION

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

Hotel Accommodation: for further information, please write to convegni@biomedia.net

CONTINUING MEDICAL EDUCATION

Provider: BIOMEDIA – **N. 148**
N. ECM: **432139**

Professional Category: Health care professional, Biologist, Chemist, Medical Doctor, Surgeon, Biomedical Laboratory Technician.

Hours of training: **11**
Credits: **7,7**

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.biomedia.it/>

Test will be on-line from 18th december to 20th december 2024

CERTIFICATE OF ATTENDANCE

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

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