«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

WORLD FEDERATION OF SCIENTISTS
Founded in Erice
Beijing, Geneva, Moscow, New York

International School of Precision Medicine and Laboratory Medicine

Directors of the School: Prof. Marcello Ciaccio, Prof. Francesco Salvatore

1th Course
CLINICAL LABORATORY MEDICINE IN THE ERA OF PRECISION MEDICINE

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

ERICE - TRAPANI - SICILY
12-13 giugno 2023

un evento organizzato da | BioMedia
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 the Laboratory Medicine, switching from a specimen-centered to patient-centered vision, paving the way toward Precision and Personalized Medicine.

The purpose of the Course is to present the last discoveries in Laboratory Medicine and their applications in Clinical Practice.

The main topics of the Course are the Big Data applied to health and disease, the Ageing, presented from an innovative and unconventional point of view, and new advancement in cancer immunotherapy. A session will be focused on COVID-19 and the last scientific evidence on the SARS-CoV-2 infection.

SCIENTIFIC COMMITTEE

Marcello Ciaccio, Mario Plebani, Francesco Salvatore

SCIENTIFIC SECRETARY

Luisa Agnello
Marcella Nunziato
Andrea Padoan

ORGANIZING COMMITTEE

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Università degli Studi di Palermo

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Dell'Istruzione e della Formazione Professionale

SIBioC
Medicina di Laboratorio ETS
Membro di

PROGRAMME | Monday, 12 June

14:00 **Opening remarks**

Welcome address by Authorities and Academicians

KEYNOTE LECTURE

14:30 **Lights and shadows in clinical trials**
Silvio Garattini (Milan)
Chair: Marcello Ciaccio (Palermo)

Laboratory Medicine:
Challenges and opportunities on the road to precision medicine
Chair: Mario Plebani (Padua), Martina Zaninotto (Padua)

15:30 **Biomarkers and Personalized Medicine: current status and further perspectives**
Giuseppe Castaldo (Naples)

15:50 **Laboratory Medicine in the Era of "Patient-Centered-Medicine"**
Giuseppe Lippi (Verona)

16:10 **New paradigms and the concept of the "Biomedical Person" during the multimorbidity that drives our aging**
Francesco Salvatore (Naples)

16:30 Discussion

16:45 Coffee Break

17:00 **ROUND TABLE**
The role of Scientific Societies in improving the appropriateness and the sustainability of the National Health System
Discussant: Marina Turco (Palermo)
Participants: Giuseppe Castaldo (Naples), Marcello Ciaccio (Palermo), Carlo Della Rocca (Rome), Giuseppe Lippi (Verona), Roberta Pacifici (Rome), Mario Plebani (Padua), Francesco Salvatore (Naples), Tommaso Trenti (Modena)

MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE IN DIAGNOSTICS
Chair: Tommaso Trenti (Modena)

09:00 **Big Data: Past, Present, and Future**
Andrea Padoan (Padua)

09:20 **Machine Learning in Laboratory Medicine: waiting for the flood?**
Rossella Tomaiuolo (Milan)

09:40 **Medical Artificial Intelligence:**
Applications, Implications, and Opportunities
Matteo Vidali (Milan)

10:00 **Discussion**

10:15 **ROUND TABLE**
The Clinical Biochemistry Research in Italy
Discussant: Marina Turco (Palermo)
Partecipant: Luisa Agnello (Palermo), Daniela Basso (Padua), Giuseppe Castaldo (Naples), Elisa Danese (Verona), Mariagrazia Perilli (L'Aquila), Mario Nuvolone (Pavia), Alessandro Usiello (Naples)

Cancer Immunotherapy: Current Status and Challenges for Clinical Application
Chair: Antonio Fortunato (Ancona)

11:30 **The Potential of Biomarker testing, real world evidence, tumour agnostic therapies to empower Personalized Medicine**
Ettore Domenico Capoluongo (Naples)

11:50 **The role of immune profile in predicting outcomes in cancer Patients treated with immunotherapy**
Marianna Nuti (Roma)

12:10 **Biomarkers in Immunotherapy: applications and shortcomings**
Antonio Russo (Palermo)

12:30 Discussion

13:00 Lunch

KEYNOTE LECTURE

14:00 **COVID-19: why did it happen and how can we protect ourselves against it happening again?"**
Giuseppe Remuzzi (Milan)
Chair: Francesco Curcio (Udine)

COVID-19: Evolution from Pandemic to Endemic
Chair: Francesco Curcio (Udine)

15:00 **COVID-19: lesson from the pandemic**
Giorgio Palù (Padua)

15:20 **COVID-19 vaccine: perspectives for living with the Virus**
Silvio Brusaferro (Udine)

15:40 **Precision Medicine for COVID-19: from biochemical to clinical phenotypes**
Mario Plebani (Padua)

16:00 **The critical role of Laboratory Medicine in COVID-19 management**
Rossella Tomaiuolo (Milano)

16:20 **Impact of COVID-19 pandemic on the performance of the Italian NHS**
Nino Cartabellotta (Bologna)

16:40 Discussion

17:00 **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, lunch and certificate of attendance.

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

CONTINUING MEDICAL EDUCATION
Provider: BIOMEDIA – N. 148
N. ECM: 386755

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 14th june to 16th june 2023.

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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