«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 MEDICAL SCIENCES

Directors: Prof. Ignazio Carreca, Prof. Antonino Zichichi

159th Course
THE VALUE OF LABORATORY MEDICINE INTO CLINICAL MEDICINE

Directors: Prof. Marcello Ciaccio, Prof. Mario Plebani, Prof. Francesco Salvatore

ERICE - TRAPANI - SICILY
7-9 November 2019

In a remote corner of Europe the University of the Third Millennium with a science without secrets and without frontiers is born.

On 8 May, 1962, in Geneva, Bell, Blackett, Rabi, Weisskopf and Zichichi, signed the charter constitution of the «Ettore Majorana» Foundation and Centre for Scientific Culture that gave new meaning to Science and its culture. Every year since its establishment, authors of new discoveries and inventions come to Erice; 85 of them were awarded the Nobel Prize after their participation to the EMFCSC activities and 49 were already Nobel laureates. These scientific world leaders teach to students from all over the world who are eager to receive the latest knowledge directly from the mouth of its authors, just as was done in the University of Bologna more than nine centuries ago. In the course of its years of activity, over 120.000 scientists from one hundred forty Nations have taken part in post-university activities to promote a Science without secrets and without borders. This scientific community has sought to beat down ideological, political and racial barriers that were invented not by Science, but by its worst enemies. The existence of a scientific community as vast as Erice is a concrete demonstration that Science's new role has already become a reality. To do Science means to unveil the fundamental logic of nature. The application of great scientific discoveries has always slipped out of the control of Science. This is why technological development almost always conflicts with the values that inspire Science: love for Creation, respect for life and promotion of human dignity. 'Science and Faith are both gifts of God', said John Paul II. No one has ever before had the courage to put the dignity of Science and Faith on the same pedestal. The new role of Science is born from this truth.

IFCC International Federation of Clinical Chemistry and Laboratory Medicine

EFLM EUROPEAN FEDERATION OF CLINICAL CHEMISTRY AND LABORATORY MEDICINE

Medicina di Laboratorio SIBioC

AIOM Associazione Italiana di Oncologia Medica

UNIVERSITÀ DEGLI STUDI DI PALERMO

UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II

UNIVERSITÀ DEGLI STUDI DI PADOVA

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The purpose of the course is to describe the new discoveries in Laboratory Medicine and their applications in clinical practice. The main topics of the Course are Autoimmunity, Precision Medicine, Cancer biology, Cardiovascular Diseases, Molecular Diagnostics, Endocrinology and Metabolism. The common thread will be the integration of biochemical information with the clinical and anamnestic one in order to improve patients outcome. Nowadays Laboratory Medicine has a key role in health care process, from screening and diagnosis, to the definition of prognosis and management of medical therapy.

The challenge of Laboratory Medicine today is the integration with Clinical Medicine, being the biochemical data the expression of a clinical value, closely linked to the pathophysiological process that underlies the disease and that very often can even precede the clinical signs and symptoms. Defining a new Laboratory-Clinical interface represents an essential step to guarantee the best outcome for the patient.

SCIENTIFIC COMMITTEE
Marcello Ciaccio, Mario Plebani, Francesco Salvatore

SCIENTIFIC SECRETARY
Giuseppe Lippi

ORGANIZING COMMITTEE
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Pierosandro Tagliaferri, *Catanzaro*
Tommaso Trenti, *Modena*
Vincenzo Trischitta, *Roma*
Martina Zaninotto, *Padova*

14.00 Opening remarks – Welcome address by Authorities and Academicians

14.30 **The state of the Italian University**
Gaetano Manfredi, President of CRUI (Conferenza dei Rettori delle Università Italiane)

15.00 **Round Table – Translational Research, Laboratory Medicine and clinical outcomes: a way to improve health care**
Discussant: *Adriana Bazzi (Milano)*
Partecipant: *Roberto Burioni (Milano), Marcello Ciaccio (Palermo), Silvio Garattini (Milano), Roberto Lagalla (Palermo), Andrea Lenzi (Roma), Gaetano Manfredi (Napoli), Mario Plebani (Padova), Rosario Rizzuto (Padova), Tullio Pozzan (Padova), Francesco Salvatore (Napoli)*

Keynote Lecture

16.00 Role of nutrition, intestinal permeability, and gut microbiome in the pathogenesis of chronic inflammatory diseases
Alessio Fasano (Boston, USA)
Chair: Marcello Ciaccio (Palermo)

Autoimmunity testing in Gastroenterology
Chairs: Tommaso Trenti (Modena), Martina Montagnana (Verona), Michele Mussap (Cagliari)

17.00 Patterns of autoimmunity in liver diseases: diagnostic and prognostic value
Antonio Craxì (Palermo)

17.20 Intestinal inflammation, wheat and autoimmunity: new insights
Antonio Carroccio (Palermo)

17.40 Autoimmunity and diagnostics in inflammatory bowel disease
Dirk Roggenbuck (Senftenberg, Germany)

18.00 Discussion

New molecular markers and cancer biology
Chairs: Ignazio Carreca (Palermo), Riccardo Ientile (Messina), Cecilia Gelfi (Milano)

9.00 Liquid biopsy as a diagnostic and prognostic tool in Precision Oncology
Antonio Russo (Palermo)

9.20 Tracking the tumor molecular make up remodelling in the ovarian cancer: face to face between tissue and ctDNA
Ettore Capoluongo (Napoli)

9.40 Pharmacogenomic approaches for the identification of biomarkers of toxicity and efficacy of anticancer drugs
Pierosandro Tagliaferri (Catanzaro)

10.00 Discussion

Keynote Lecture

10.15 Cancer Biology: new tools for deeper insights and therapeutic approaches
Stefano Piccolo (Padova)
Chair: Mario Plebani (Padova)

11.15 Coffee break

New technologies and advanced diagnostics
Chairs: Giuseppe Banfi (Milano), Maria Grazia Perilli (L'Aquila), Vincenzo De Laurenzi (Chieti)

11.30 Next Generation Sequencing in Medicine
Valeria D'Argenio (Napoli)

11.50 Microbiota profiling and clinical diagnostic applications
Lorenza Putignani (Roma)

12.10 Discussion

13.00 Lunch

The Clinical Laboratory for predicting cardiovascular outcomes
Chairs: Antonio Pinto (Palermo), Martina Zaninotto (Padova), Maria Stella Graziani (Verona)

15.00 Sick molecules and diseases
Giampaolo Merlini (Pavia), Giovanni Palladini (Pavia)

15.20 Cardiac biomarkers: from diagnosis to risk prediction
Mario Plebani (Padova)

15.40 Highly-sensitive cardiac troponin: the cholesterol of the third millennium?
Giuseppe Lippi (Verona)

16.00 Discussion

Diabetes Mellitus: new actors for an old story
Chairs: Laura Sciacovelli (Padova), Carla Giordano (Palermo), Giorgio Da Rin (Genova)

16.30 New biomarkers for the pathogenesis of diabetic long-term complications
Gian Paolo Fadini (Padova)

16.50 Risk prediction models for cardiovascular diseases and mortality
Vincenzo Trischitta (Roma)

17.10 The treatment of patients with type 2 diabetes: innovations and perspectives
Angelo Avogaro (Padova)

17.30 Discussion

Keynote Lecture

17.45 Drugs: from discovery to market
Silvio Garattini (Milano)
Chair: Francesco Salvatore (Napoli)

Molecular Diagnostics and Personalized Medicine
Chairs: Sergio Bernardini (Roma) Lucio Pastore (Napoli), Marcella Renis (Catania)

09.00 The four main revolutions of prenatal genetic diagnosis
Bruno Dallapiccola (Roma)

09.20 Expanding space for Next Generation Sequencing diagnostics application
Maurizio Ferrari (Milano)

09.40 Genes, love and suicide
Giuseppe Castaldo (Napoli)

10.00 Discussion

10.30 Coffee break

Keynote Lecture

11.00 The changing paradigm between aging and diseases
Francesco Salvatore (Napoli)
Chair: Carmine Di Ilio (Chieti)

12.00 Closing remarks and end of the Course

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

HOW TO REGISTER

All participants are kindly recommended to register via the online registration form at www.biomedia.net

CONTINUING MEDICAL EDUCATION (ECM only for Italian participants)

Professional Category: Biologist, Chemist, Physician, Biomedical Laboratory Technician.

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 www.biomedia.net.

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CERTIFICATE OF ATTENDANCE

A certificate of attendance will be available online after the meeting in MyLogin area on www.biomedia.net.

OFFICIAL LANGUAGE

English and Italian

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