



«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 NANOMEDICINE

2nd Course: *NEW TRENDS IN NANOMEDICINE*

ERICE-SICILY: 8 – 13 APRIL 2017

Sponsored by the: • Italian Ministry of Education, University and Scientific Research
• Sicilian Regional Government • Research Council •
• Nanomedicine Centre University Milano-Bicocca (NanoMiB)

TOPICS AND LECTURERS

Nano and post-nano strategies

• M. FERRARI, Houston Methodist Research Institute, TX, US

Stealth & furtivity

• G. STORM, Utrecht University, NL

Nanomedicine for the therapy of brain diseases

• M. MASSERINI, University of Milano-Bicocca, IT

Oral delivery of macromolecular drugs: 100 years of attempts

• JC LEROUX, Swiss Federal Institute of Technology, Zurich, CH

Design of innovative nanomedicines for cancer and neurological disorders

• P. COUVREUR, University of Paris Sud, FR

Nano against Virus

• F. STELLACCI, École Polytechnique Fédérale Lausanne, CH

Protein-only nanoparticles for systemic therapies

• A. VILLAVERDE, Universitat Autònoma de Barcelona, ES

Animal models for nanomedicine

• G. CAVALETTI, University of Milano-Bicocca, IT

Nano-structured probes for PET

• R.M. MORESCO, University of Milano-Bicocca, IT

Nanoparticles and Diagnostic

• M.C. MESSA, University of Milano-Bicocca, IT

Biological-basis for designing biomaterials for the injured and degenerated host

• A. PANDIT, National University of Ireland, Galway, IR

Living implant fortified with active therapeutics and stem cells for regenerative nanomedicine

• N. BENKIRANE-JESSEL, Inst. Nat. Santé et Recherche Médicale, Paris, FR

Ups and downs of translating nanomedicines to the market; The EU Nanomedicine Translation Hub

• P. BOISSEAU, European Technology Platform on Nanomedicine, Paris, FR

Simulation in Nanomedicine: from Physicochemical Properties to Toxicity

• W. WENZEL, Karlsruhe Institute of Technology, DE

PURPOSE OF THE COURSE

The Course aims to present the state-of-the-art and future perspectives of Nanomedicine.

A series of lectures given by outstanding speakers from all over the world of the international nano and medical community, covering several aspects of nanoparticles with a specific focus on human health. The Scientific Program includes the following topics: i. Nanoparticles: design and crossing barriers; ii. Nanotechnology for therapy of human diseases; iii. Nanotechnology for diagnosis of human diseases; iv. Regenerative nanomedicine; v. Immunogenicity, toxicity and safety of nanoparticles.

A large amount of time will be dedicated to discussion and interaction among participant. The participants will also have the opportunity to present their own scientific results either by short oral communication or in the form of poster.

APPLICATIONS

The number of participants is limited to 100 persons. Application form and further information may be found at the web link:

<http://nanomib.wixsite.com/nanomedicineschool>

Deadline for application January 30th, 2017. Also for further information contact the Director of the Course at email address:

nanomib@unimib.it.

PLEASE NOTE

Participants should arrive in Erice on 8 April not later than 5 pm.

POETIC TOUCH

According to legend, Erice, son of Venus and Neptune, founded a small town on top of a mountain (750 metres above sea level) more than three thousand years ago. The founder of modern history — i.e. the recording of events in a methodic and chronological sequence as they really happened without reference to mythical causes — the great Thucydides (~500 B.C.), writing about events connected with the conquest of Troy (1183 B.C.) said: «After the fall of Troy some Trojans on their escape from the Achaei arrived in Sicily by boat and as they settled near the border with the Sicanians all together they were named Elymi: their towns were Segesta and Erice.» This inspired Virgil to describe the arrival of the Trojan royal family in Erice and the burial of Anchises, by his son Aeneas, on the coast below Erice. Homer (~1000 B.C.), Theocritus (~300 B.C.), Polybius (~200 B.C.), Virgil (~50 B.C.), Horace (~20 B.C.), and others have celebrated this magnificent spot in Sicily in their poems. During seven centuries (XIII-XIX) the town of Erice was under the leadership of a local oligarchy, whose wisdom assured a long period of cultural development and economic prosperity which in turn gave rise to the many churches, monasteries and private palaces which you see today.

In Erice you can admire the Castle of Venus, the Cyclopean Walls (~800 B.C.) and the Gothic Cathedral (~1300 A.D.). Erice is at present a mixture of ancient and medieval architecture. Other masterpieces of ancient civilization are to be found in the neighbourhood: at Motya (Phoenician), Segesta (Elymian), and Selinunte (Greek). On the Aegadian Islands — theatre of the decisive naval battle of the first Punic War (264-241 B.C.) — suggestive neolithic and paleolithic vestiges are still visible: the grottoes of Favignana, the carvings and murals of Levanzo.

Splendid beaches are to be found at San Vito Lo Capo, Scopello, and Cornino, and a wild and rocky coast around Monte Cofano: all at less than one hour's drive from Erice.

More information about the «Ettore Majorana» Foundation and Centre for Scientific Culture can be found on the WWW at the following address:
<http://www.ccssem.infn.it>