



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

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



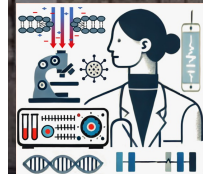
International School of Bioelectromagnetism "Alessandro Chiabrera"

Directors of the School: Ferdinando Bersani (University of Bologna, Italy) and Maria Rosaria Scarfi (CNR-IREA, Naples, Italy)

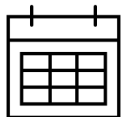
Come....

**11th Course: "Advances in Electroporation-Based
Therapy: from Principles to Clinical Applications"**

Erice (Sicily, Italy): May 2 to 7, 2025



■ KEY INFORMATION



DATE

2-7 May 2025

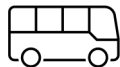


VENUE

The Centre for Scientific Culture in Erice (Sicily, Italy)



Airport: Airport Trapani-Birgi "Vincenzo Florio" (TPS)
Airport: Airport Palermo Falcone e Borsellino



+ Shuttle of the School



WEBSITE

<https://ettoremajoranafoundation.it/>
<http://www.eisbem.eu/index.php/2025-xi-course/>

Historical note on the Venue and the School

Ettore Majorana Foundation and Centre for Scientific Culture, named after the renowned Italian physicist born in Sicily in 1906, is located in the ancient city of Erice. The Centre's four restored monasteries create an ideal setting for intellectual pursuit.

In 2004, the Centre established the Permanent School of Bioelectromagnetics, named after Alessandro Chiabrera, to study the biological effects of electric, magnetic, and electromagnetic fields, with a particular attention for future diagnostic and therapeutic applications.



ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE

The Erice Statement

The Erice Statement urges scientists to prioritize peace over military uses, promoting transparency, cooperation, and limiting nuclear arms. It calls for the prevention of nuclear weapon proliferation and the moral responsibility of scientists to advocate for peaceful technology. Since 1982, over 90,000 have supported this initiative.

WHY COME TO ERICE 2-7 MAY 2025??

Inspiring Setting: Erice's ancient city and stunning vistas offer a serene atmosphere, perfect for intellectual engagement and reflection

World-Class Facility: The Ettore Majorana Foundation hosts renowned scientists, fostering collaboration in top-tier scientific fields.

Rich Cultural Heritage: Experience Sicily's unique blend of history and culture while participating in cutting-edge research.

Global Networking: Join an international community of experts dedicated to advancing science and technology in a prestigious venue.



ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE

Locations and Structures

In Erice, ancient monasteries and churches have been restored to host scientists and meetings. Headquarters, offices, accommodations, and lecture halls are located in these renovated spaces, maintaining their original charm. The Centre's premises include the monasteries of San Rocco, San Francesco, and San Domenico. San Domenico serves as the main lecture site, while San Rocco houses the Secretariat and participant accommodations.



San Rocco, entrance



San Rocco, inner court

The Structures for the Courses and Lectures

San Domenico, outside



The Lecture hall, inside



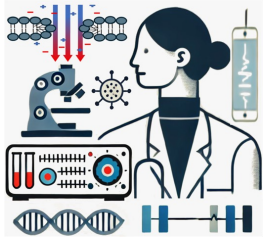
Coffee breaks and Poster room, 2° floor, inside



Directors of the School: *Ferdinando Bersani (University of Bologna, Italy)*
and *Maria Rosaria Scarfi (CNR-IREA, Naples, Italy)*

11th Course: "Advances in Electroporation-Based Therapy: from Principles to Clinical Applications"

Erice (Sicily, Italy): May 2 to 7, 2025



Course Description: Explore electroporation-based treatments, understanding key physical principles and recent clinical advances. Learn the crucial role of electric fields and the importance of treatment planning across various therapies.

Key Objectives: Equip researchers and medical professionals with essential skills for effective use of electroporation treatments. Understand mechanisms, electric field distribution, and electrode placement to enhance clinical practice.

Educational Experience: Gain a practical understanding of advancements and future applications in electroporation. Learn about cellular responses to pulsed electric fields, opening new paths for innovative patient care.

Directors of the course



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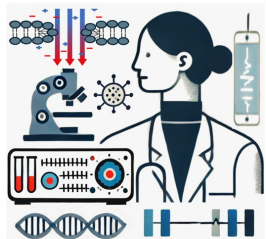
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Co-organised with:



International School of Bioelectromagnetism "Alessandro Chiabrera"

Directors of the School: *Ferdinando Bersani (University of Bologna, Italy)*
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11th Course: "Advances in Electroporation-Based Therapy: from Principles to Clinical Applications"

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For DETAILED PROGRAM scan this



CONFIRMED SPEAKERS

Prof. Luis Mir	French National Center for Scientific Research
Prof. Gregor Sersa	Institute of Oncology Ljubljana
Prof. Richard Heller	University of South Florida
Prof. Julie Gehl	University of Copenhagen
Dr. Emanuela Signori	Italian National Research Council
Prof. Qi Shao	University of Minnesota
Prof. Maja Cemazar	Institute of Oncology Ljubljana
Prof. Antoni Ivorra	Universitat Pompeu Fabra
Prof. Lea Rems	University of Ljubljana
Prof. Francesca Apollonio	University of Rome Sapienza
Prof. Clair Pognard	CNRS, University of Bordeaux
Prof. Fernando Burdío	Universitat Pompeu Fabra
Dr. Stefania Romeo	Italian National Research Council
Dr. Roberta Fusco	National Cancer Institute 'G. Pascale Foundation'
Dr. Luigi Aurisicchio	Takis Biotech
Dr. Giulia Bertino	Policlinico San Matteo Pavia, IRCCS Foundation

Award for the best poster presentation

All participants are invited to bring a poster on their current research topic, for one dedicated session. A Scientific Committee will award the author of the best poster.

Practical Experience & Industry and Medical Experts

Practical experiences and two dedicated sessions: one featuring industry experts providing insights on technological developments, and the other with physicians addressing current clinical challenges.

COURSE PROGRAM AT GLANCE

Friday, May 2nd

1

Theme: BASICS

- Welcome, Introduction, Course opening
- Basic Mechanisms Principles
- Results of cells exposure: reversible electroporation
- Results of cells exposure: irreversible electroporation
- Results of cell response for transfection
- Other basic responses
- Electroporation as a Platform Technology

Saturday, May 3rd

2

Theme: ELECTRIC FIELD

- Electric Field Generators and Electrodes for EP and drug diffusion
- Electric Field Generators and Electrodes for IRE & PFA
- Electric Field Generators and Electrodes for gene electrontransfer
- Collateral Effects of Electroporation
- Impact of protocol parameters
- Electric Field Coupling and Modeling
- Treatment Planning Strategies

Sunday, May 4th

3

Theme: LABWORK AND INTERACTIVE FORUM

- Labwork 1: Electric Field Calculation on a Basic EP Configuration
- *Industry Panel: Gaps and Challenges in Technological Development*
- Labwork 2: Electric Field Calculation on a Case Study
- Labwork 3: Electroporation experience on a vegetable tissue

Monday, May 5th

4

Theme: CLINICS

- Different Clinical Applications, main Results, and emerging issues
- Clinical Applications: ECT, IRE, PFA, EGT
- Clinical Applications: Veterinary oncology
- The Insp-ECT (International Network for Sharing practices on ECT) experience
- Medical Experts Panel
- Students Posters and Discussion
- Course Dinner and Best Poster Award

Tuesday, May 6th

5

Theme: FUTURE DIRECTIONS

- Tumour Ablation: Clinical Experiences: Bone metastasis at Vertebre
- Tumor Ablation and its Interplay with the Adaptive Immune Response
- Combined treatment of ECT and immunotherapy
- Excursion

Wednesday, May 7th

6

Half day

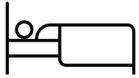
- State of the Art at 5thWorld Congress Electroporation in Rome 2024
- Overview of recent funded Research Programs
- Closing remarks and overview of EP topic at Erice

COSTS and FACILITIES

REGISTRATION FEE: 1300 € INCLUDING:



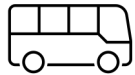
ATTENDANCE TO CLASSES AND PRACTICAL EXPERIENCES



Accommodations:
Rooms at the restored monasteries San Rocco, San Francesco, and San Domenico



FOOD:
Breakfasts, Coffe Breaks, Lunches, Dinners, + Course-Dinner on Monday 5th



TRANSPORTATIONS
Shuttle of the School from and to the Airport + Excursion to an archeological site on Tuesday 6th



BEST STUDENT POSTER AWARD

HOW TO APPLY

Interested candidates should send an e-mail to the Directors of the Course at school2025@eisbem.eu, including:

- A short Curriculum Vitae
- Scientific interest of the candidate
- Students: a letter of recommendation of a Senior Scientist

Deadline:

December 31, 2024

■ COME TO ERICE – from 2 to 7 May 2025

