



UNIVERSITY
OF CRETE



HELLENIC SOCIETY
OF GENE THERAPY AND
REGENERATIVE MEDICINE

www.generegther.gr | info@generegther.gr

The HELLENIC SOCIETY OF GENE THERAPY AND REGENERATIVE
MEDICINE & the UNIVERSITY OF CRETE

Organize the

1st SUMMER SCHOOL in REGENERATIVE MEDICINE



01-03
July 2026

University of Crete
School of Medicine
Heraklion, Crete, Greece



The Summer School is addressed to
postgraduate/doctoral students and
resident doctors.

More Information: conference@uoc.gr

The HELLENIC SOCIETY OF GENE THERAPY AND REGENERATIVE MEDICINE &
the UNIVERSITY OF CRETE
organize

**The 1st SUMMER SCHOOL
In REGENERATIVE MEDICINE**

Aim

This Summer School aims to provide participants with a comprehensive overview of key stem cell technologies and their applications in Regenerative Medicine. The program combines lectures, demonstrations, and hands-on laboratory training focused on stem cells and biomaterials.

Description

Regenerative Medicine (RM) is the interdisciplinary field that focuses on repairing or replacing damaged tissues and organs. RM relies on the integration of diverse components including stem cells, biomaterials and soluble factors to regulate wound healing and favor the synthesis of new tissue.

Participants will gain an in-depth understanding of stem cells and biomaterials, two major components of emerging RM treatments. Training on stem cells will cover various stem cell types, including adult and induced pluripotent stem cells, with a focus on their biological properties and mechanisms of differentiation. Training on biomaterials will include their fabrication, mechanics, cell-biomaterial interactions and biomaterial effects in wound healing. Participants will gain essential knowledge on the translation of RM technologies from bench to bedside, including ethical and regulatory frameworks governing their clinical use. Emphasis is placed on hands-on laboratory experience, including stem cell culture and differentiation, stem cell–biomaterial interactions, biofabrication, bioinformatics, biobanking and Good Manufacturing Practice practices. Finally, the program provides opportunities to participants to present their work and interact with experts in the field.

Eligibility Criteria

The Summer School is open to Master and PhD students holding a BSc degree in Life Sciences, Medicine, or Biomedical Engineering as well as resident doctors with an interest in RM.

Selection

Selection criteria will be based on the information provided in the CV and the motivation letter.

Travel grants

Limited travel grants will be provided by the Hellenic Society of Gene Therapy and Regenerative Medicine.

Summer School in Regenerative Medicine

1-3 July 2026

Heraklion, Crete, Greece

Organized by

**The Hellenic Society of Gene Therapy and
Regenerative Medicine & The University of Crete**

Day 1

Wednesday

01 July 2026

Fundamentals

Morning Session

General aspects of stem cells – embryonic stem cells and induced pluripotent stem cells (iPSCs)

I. Charalampopoulos, K. Chanoumidou

Isolation, characterizations and properties of Hemopoietic stem cells (HSCs) and Mesenchymal stem cells (MSCs)

M. Roubelaki, C. Pontikoglou

Isolation, Cultivation, and Genetic Manipulation of Neural Stem Cells (NSCs)

P. Politis, E. Taoufic

Afternoon Session – Hands on training

Stem cell Culture (stem cells/iPSCs/organoids), Human iPSC models for drug testing

H. Papadaki Lab, I. Charalampopoulos Lab

“Omics” and Bioinformatics/A.I. tools for data analysis

G. Tsaknakis, L. Latsoudi, P. Pavlidis

GMP facility visit – Biobank

I.Mavroudi, I.Gontika, I.Fragiadaki Public Cord Blood Bank of Crete

Biomaterials

M. Chatzinikolaidou

Networking Dinner

Day 2
Thursday
02 July 2026

**Cutting-edge
innovations and
Regulatory aspects**

Morning Session

Biomaterials for stem cell application

M. Chatzinikolaidou, D. Tzeranis

Biobanking, Bioethics, Regulations

N. Sousos, S. Tsinorema

Clinical Trial Design in Advanced Therapies

E. Yannaki

Afternoon Session – Hands on training

Stem cell Culture (stem cells/iPSCs/organoids), Human iPSC models for drug testing

H. Papadaki Lab, I. Charalampopoulos Lab

“Omics” and Bioinformatics/AI tools for data analysis

G. Tsaknakis, L. Latsoudi, P. Pavlidis

GMP facility visit – Biobank

I.Mavroudi, I.Gontika, I.Fragiadaki Public Cord Blood Bank of Crete

Biomaterials. Fabrication and microfabrication of porous scaffolds.

D. Tzeranis

Morning Session

Human iPSC-based drug development and clinical applications

I. Charalampopoulos, H. Papadaki

Oral and Poster presentation session

Afternoon

Exploring the archeological sites of Heraklion

Day 3
Friday
02 July 2026

**Translating human
stem cell potential for
drug development
and clinical
applications**

Organizing Committee

Members

Papadaki Helen, Professor of Haematology, Dean of the School of Medicine, University of Crete, Director of the Department of Haematology, the Haemopoiesis Research Laboratory, School of Medicine, University of Crete & the Public Cord Blood Bank of Crete, University Hospital of Heraklion

Pontikoglou Charalampos, Associate Professor of Haematology, School of Medicine, University of Crete and scientist in charge of the Cellular Therapies Unit, School of Medicine, University of Crete

Charalampopoulos Ioannis, Professor of Pharmacology, School of Medicine, University of Crete & Researcher Institute of Molecular Biology & Biotechnology, Foundation for Research and Technology – Hellas (FORTH)

Tzeranis Dimitris, Assistant Professor, Department of Materials Science and Engineering, University of Crete

Chanoumidou Konstantina, Assistant Professor of Pharmacology, School of Medicine, University of Crete

Chatzinikolaïdou Maria, Professor of Biomaterials in Bioengineering and Head of the Laboratory for Biomaterials in Tissue Engineering, Department of Materials Science and Engineering, University of Crete

Scientific Committee

Members

Yannaki Evangelia, Haematologist, Director, Haematology Clinic – Haematopoietic Cell Transplantation Unit (HCTU) – Gene and Cell Therapy Center, "Georgios Papanikolaou" Hospital, Thessaloniki

Michalakis Stylianos, Professor of Ophthalmic Gene Therapy, Ludwig Maximilian University of Munich, Germany

Papadaki Helen, Professor of Haematology, Dean of the School of Medicine, University of Crete, Director of the Department of Haematology, the Haemopoiesis Research Laboratory, School of Medicine, University of Crete & the Public Cord Blood Bank of Crete, University Hospital of Heraklion

Papadopoulou Anastasia, Assistant Professor of Immunobiology, Department of Biology, Aristotle University of Thessaloniki; Head of Cell Production, Gene and Cell Therapy Unit, Hematology Department, General Hospital of Thessaloniki "Georgios Papanikolaou"

Politis Panagiotis, Group leader, Center of Basic Research, Biomedical Research Foundation of the Academy of Athens (BRFAA)

Roubelakis Maria (Maya), DPhil, Professor of Biology and Regenerative Medicine Laboratory of Biology, Medical School, National and Kapodistrian University of Athens Affiliated Investigator, Cell and Gene Therapy Laboratory, Biomedical Research Foundation of the Academy of Athens, President of Hellenic Society of Gene Therapy and Regenerative Medicine

Taufik Era, Principal Investigator at the Hellenic Pasteur Institute

Charalampopoulos Ioannis, Professor of Pharmacology, School of Medicine, University of Crete & Researcher Institute of Molecular Biology & Biotechnology, Foundation for Research and Technology – Hellas (FORTH)

List of Tutors

In alphabetical order

Chanoumidou Konstantina, Assistant Professor of Pharmacology, School of Medicine, University of Crete

Charalampopoulos Ioannis, Professor of Pharmacology, School of Medicine, University of Crete & Researcher Institute of Molecular Biology & Biotechnology, Foundation for Research and Technology – Hellas (FORTH)

Chatzinikolaidou Maria, Professor of Biomaterials in Bioengineering and Head of the Laboratory for Biomaterials in Tissue Engineering, Department of Materials Science and Engineering, University of Crete

Fragiadaki Irene, Postdoctoral Researcher, Haemopoiesis Research Laboratory, School of Medicine, University of Crete & the Public Cord Blood Bank of Crete, University Hospital of Heraklion, Crete

Gontika Ioanna, Postdoctoral Researcher, Haemopoiesis Research Laboratory, School of Medicine, University of Crete & the Public Cord Blood Bank of Crete, University Hospital of Heraklion, Crete

Latsoudis Helen Postdoctoral Researcher, Haemopoiesis Research Laboratory, School of Medicine, University of Crete & Information System Laboratory, Institute of Computer Sciences, Foundation for Research and Technology – Hellas (FORTH), Crete

Mavroudi Irene, Postdoctoral Researcher, Haemopoiesis Research Laboratory, School of Medicine, University of Crete & the Public Cord Blood Bank of Crete, University Hospital of Heraklion, Crete

Papadaki Helen, Professor of Haematology, Dean of the School of Medicine, University of Crete, Director of the Department of Haematology, the Haemopoiesis Research Laboratory, School of Medicine, University of Crete & the Public Cord Blood Bank of Crete, University Hospital of Heraklion

Pavlidis Pavlos, Assistant Professor, Department of Biology, University of Crete, researcher, Institute of Informatics Foundation for Research and Technology – Hellas (FORTH)

Politis Panagiotis, Group leader, Center of Basic Research, Biomedical Research Foundation of the Academy of Athens (BRFAA)

Pontikoglou Charalampos, Associate Professor of Haematology, School of Medicine, University of Crete and scientist in charge of the Cellular Therapies Unit, School of Medicine, University of Crete

Roubelakis Maria (Maya), DPhil, Professor of Biology and Regenerative Medicine Laboratory of Biology, Medical School, National and Kapodistrian University of Athens
Affiliated Investigator, Cell and Gene Therapy Laboratory, Biomedical Research Foundation of the Academy of Athens, President of Hellenic Society of Gene Therapy and Regenerative Medicine

Sousos Nikolaos, Assistant Professor of Haematology-Clinical Haematology, School of Medicine, University of Crete

Taoufic Era, Principal Investigator at the Hellenic Pasteur Institute

Tsaknakis Grigorios, Postdoctoral Researcher, Haemopoiesis Research Laboratory, School of Medicine, University of Crete

Tsinorema Stavroula, Professor of Philosophy and Bioethics, University of Crete, National Representative in the ERA Action on Research Ethics and Integrity

Tzeranis Dimitrios, Assistant Professor, Department of Materials Science and Engineering, University of Crete

Yannaki Evangelia, Haematologist, Director, Haematology Clinic – Haematopoietic Cell Transplantation Unit (HCTU) – Gene and Cell Therapy Center, "Georgios Papanikolaou" Hospital, Thessaloniki



HELLENIC SOCIETY
OF GENE THERAPY AND
REGENERATIVE MEDICINE

www.generegther.gr | info@generegther.gr



Scan to navigate to the venue



ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΡΗΤΗΣ
UNIVERSITY OF CRETE



SCHOOL OF MEDICINE



Department of Materials
Science and Engineering

Tel: +30 210 7211806, +30 2810 393180

Email: info@generegther.gr

Website: www.generegther.gr

Email: welcomeroom@uoc.gr

For more information,
please get in touch with us.

@HSGTRM

@_HSGTRM