



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

MASTER

Regenerative Medicine and Tissue Engineering

II Edition - Rome Campus
Master of Advanced Study

Gemelli



Fondazione Policlinico Universitario Agostino Gemelli IRCCS
Università Cattolica del Sacro Cuore



WHY A MASTER IN REGENERATIVE MEDICINE AND TISSUE ENGINEERING

The aim of the Master's program is to provide a multidisciplinary post-graduate training in regenerative medicine and tissue engineering. This program represents a unique opportunity for in-depth research on innovative and specialized areas of stem cell research and tissue engineering technology.

PARTICIPANT PROFILE

Applicants must hold an academic qualification recognized as equivalent to the Italian “Laurea Specialistica” or “Laurea Magistrale”, that may include degrees in: Biology, Medicine and Surgery, Biotechnology, Pharmaceutical Sciences, Veterinary Medicine, Biomedical Engineering, Material Engineering, Dentistry, and Chemistry. Additional requirements: good English, basic knowledge in regenerative medicine and tissue engineering.

LEARNING OUTCOMES

Through a multidisciplinary training attendees will develop a critical scientific approach towards the treated topics that will enable:

- in-depth research into innovative and specialized areas of stem cell research and tissue engineering technology, ranging from in vitro and pre-clinical models to clinical applications;
- principles of ethics, safety, quality and efficacy, pharmaceutical quality assurance and regulatory affairs considering that Advanced Therapy Medicinal Products (ATMPs) are expected to have a considerable impact on medical practice, and that the regulatory core is evolving accordingly;
- insight on market access and business opportunities for regenerative medicine applications.

PROGRAM STRUCTURE

The Master lasts one year (from June 2022 to May 2023) for a total of 60 credits (ECTS). Classes run on weekends.

In addition to the classes, there is a commencement and closing ceremony which will be held on Friday afternoons. The entire program runs for a total of 8 weekends.

Furthermore, participants are invited to attend:

- an international workshop/meeting in the field;
- an internship of 700 hours is mandatory and must be performed in Research Centers, Universities or Companies operating in the field of regenerative medicine, or in Regulatory bodies, with the aim to provide the necessary professional and technical approaches in order to be familiar with basic research and in regulatory and business scenarios.

TEACHING METHOD

Lessons will be delivered either in presence at the Università Cattolica del Sacro Cuore, Facoltà di Medicina e Chirurgia “A. Gemelli” in Rome, or online via a live streaming platform, and will be complemented by active learning approaches. Lectures are accompanied by workshops and panel/roundtable discussions with lecturers, allowing for professional networking in both formal and informal settings (lunch/dinner/cocktails with the experts), and favoring an update on the “hot topics” in the field. An internship is mandatory.



COURSES

■ Fundamentals of Regenerative Medicine	2 ECTS
■ Advanced Stem Cell Concepts	2 ECTS
■ Modern Era of Regenerative Medicine	2 ECTS
■ Tissue Engineering and Biomaterials	2 ECTS
■ Modelling Diseases from Cells to Organisms	2 ECTS
■ Veterinary Medicine Applications of Regenerative Medicine	2 ECTS
■ Roadmap to Clinical Translation	2 ECTS
■ From a Research Project to a Translational Product:	2 ECTS
■ From Research to Clinic: A Dialogue between Research Laboratories and Competent Authorities	2 ECTS
■ Regenerative Medicine: Market Access and Business Opportunities	2 ECTS

WORKSHOP 2 ECTS

INTERNSHIP 28 ECTS

FINAL PROJECT AND EXAMINATION 10 ECTS



INFORMATION

General information and administrative procedures

Unità organizzativa Master, Dottorati e corsi specializzanti Roma

Tel 06 3015 4275 (from 9 AM to 1 PM)

email - segreteria.scuolespecializzazione-rm@unicatt.it

Pec - master.scuolespecializzazioni-rm@pec.ucsc.it

Information about the Master's structure and program

Università Cattolica del Sacro Cuore

Master in Regenerative Medicine and Tissue Engineering

Largo Francesco Vito, 1 - 00168 Roma

e-mail: master.regenerativemedicine@unicatt.it

KEY FACTS

DEADLINE FOR APPLICATION

March 30th, 2022

FEES

€ 3.200 payable in two installments

COURSE ATTENDANCE

Master begins in June 2022 and runs until March 2023.

The closing ceremony is expected in May 2023.

Active attendance of all sessions is mandatory (minimum of 80% attendance).

NETWORK

The Master in Regenerative Medicine and Tissue Engineering relies on an extensive network of over 40 internationally renowned, European and extra-European scientists from the most relevant and distinguished Universities and Research Centers in the field of regenerative medicine worldwide, with the contribution of experts from the industry and regulatory affairs.



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Prof. Ornella PAROLINI, Università Cattolica del Sacro Cuore

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