23rd edition

International Master in Donation and Transplantation of Organs, Tissues and Cells

September 2026 – June 2027

DTI

DONATION & TRANSPLANTATION INSTITUTE

OVERVIEW

Donation and Transplantation Institute – DTI Foundation is a non-profit organization with the commitment to train and advise public and private organizations in the development of organ donation and transplantation systems, and therefore to raise organ donation in the world and improve people's quality of life.

Transplant Procurement Management (TPM) is the educational brand of DTI Foundation. It was created in 1991 as an international educational program that provides demand-driven, high-quality training that facilitates the transfer of knowledge and the development of professional competences as well as an excellent framework for networking worldwide.

The International Master in Donation and Transplantation of Organs, Tissues and Cells is a specific Master of the Universitat de Barcelona that gathers the up to now efforts carried out by national and international organizations of this field. It takes advantage of advanced learning technologies that provide significant learning experiences and foster meaningful collaborations.

This is an online training program that includes an optional face to face observership in a prestigious centre. You will have the opportunity to learn and to exchange knowledge with colleagues, experts, tutors and the centres' staff. TPM courses previously completed are eligible for recognition and are validated.

Duration – 9 months

Language – English

Modality- Online/Blended

OBJECTIVES

The main goal of this Master's program is to integrate knowledge, skills, and best practices to support healthcare professionals like you working as donor-transplant coordinators, tissue bankers and advanced cell therapies researchers. This is done by providing an updated educational program that leads to earning a Master's degree.

- To provide healthcare professionals with the **tools and resources** that may support their work and the development of the multidisciplinary tasks in donor-transplant coordination, tissue banking and cell therapy programs.
- To facilitate the switch from theoretical knowledge into the **practice**, through a critical reflection about their own experience.
- To **optimize decision-making** in the organ procurement process, to boost teamwork and to promote the use of communication technologies to share information, knowledge and best practices.
- To establish a **consulting network** with the participation of allied international institutions building up safe and quality transplant systems.
- To **increase donation rates** and, consequently, transplantation rates among the countries represented by the participants.

International experts:
Vast experience in the field of donation and transplantation

Networking:
Learn and share experiences from a multicultural approach.

Learning on the go:
You can learn anywhere, anyway and any time

Knowledge:
Holistic view of the donation and transplantation process.

ADDRESSED TO

- Healthcare professionals involved in any of the phases of an ongoing organ donation / transplantation program.
- Professionals involved in tissue, cells, and advanced therapies.
- Researchers and project managers working in the field.
- Biology, Biochemistry, Chemical Engineering, Pharmacy & Pharmacology specialists.
- Professionals in charge of national, regional, or local procurement organizations

SKILLS AND COMPETENCES

- Develop a strategic vision to increase donation rates by acquiring knowledge and planning, coordinating, and promoting public awareness.
- Ensure compliance with international standards for the procurement, processing, and storage of organs, tissues and cells.
- Apply clinical criteria and ethical principles to assess donor eligibility and manage donation processes.
- Evaluate donor and recipient suitability based on clinical, immunological, and logistical criteria.
- Understand the principles of transplant surgery and manage early postoperative care.
- Conduct sensitive conversations with donor families and lead public awareness campaigns to promote donation.
- Demonstrate effective communication and collaboration in multidisciplinary teams to ensure safe and efficient donation and transplantation procedures.
- Apply personal and interpersonal skills such as responsibility, motivation, empathy, flexibility, tenacity, enthusiasm, autonomy, creativity, diplomacy, and conflict resolution in professional and collaborative contexts.
- Exhibit leadership and contribute actively to team-based initiatives.
- Build professional networking andinternational collaboration with other healthcare professionals.
- Demonstrate the ability to independently plan, manage, and evaluate one's learning process in an online academic setting, using digital tools and virtual spaces.

PERSONALIZED PATHWAY

The program offers two different pathways with the following modular structure:

METHODOLOGY

The methodology of this program is designed to foster **competency-based**, **interdisciplinary**, and **practice-oriented learning** in a flexible online environment. It integrates theoretical knowledge with real-world application through:

- A **modular** structure, with thematic modules covering all the donation and transplantation process
- **Online live sessions** / webinars that provide opportunities for direct engagement with faculty
- A **self-directed** and **asynchronous learning** through a **virtual campus**, allowing students to manage their own pace and schedule
- Learning materials including **recorded lectures**, **case studies**, **interactive multimedia content**, and **case-based and problem-solving approach**
- **Collaborative learning**, with virtual discussions and group assignments simulating the multidisciplinary nature of transplant teams
- **Expert guidance** from international experts in the field
- **Continuous assessment**

Each module will require approximately 10-15h hours dedication per week, including one online live session every Thursday. *

*Sessions are subject to change dates. These are specified in the course calendar.

Asynchronous Activites

Learn at your own pace:

- Written content
- Videos
- Forum discussions
- Group activities
- Virtual games

Synchronous Activites

Real-time sessions once a week:

- Interactive clinical cases
- Round table
- Video analysis
- Lectures

Contents are divided into different topics and are delivered gradually through our virtual campus according to the calendar. Each topic is guided by a team of **national and international healthcare professionals** with a high level of expertise in the field.

Faculty members act as tutors **promoting communication and guiding the students** throughout their learning process.

Learning through our virtual campus based on:

- Collaborative learning
- Case-based learning
- Simulations
- Problem-based learning
- Gamification
- Flipped learning

CONTENTS AND CALENDAR

ORGAN PROCUREMENT

5th October - 13th December 2026

- Donor Detection and Evaluation
- Brain Death Diagnosis
- Donor Management and Organ Viability
- Family approach to Organ Donation
- Organ Recovery, Preservation & Allocation Criteria (ORPA)
- Donation after Circulatory Death

LEADERSHIP, QUALITY, MANAGEMENT AND INNOVATION

14th December-31st January 2027

- Organ procurement and transplant programs organization
- Best practice models
- Teambuilding & empowerment
- Optimal cost-effective measures
- Engaging your staff: working with and through others
- Quality programs and quality indicators

ORGAN TRANSPLANTATION

1st February - 11th April 2027

- Immunology and Immunosuppression
- Indications and Waiting List
- Organ evaluation and surgical procedure
- Postoperative management and medical follow-up
- Paediatric Transplantation
- Living donation

TISSUE BANKING AND ADVANCED THERAPIES

5th April - 6th June 2027

- Ethical and Regulatory Issues
- Quality Management
- Tissue Donor Detection and Select Criteria
- Cardiovascular Banking
- Cornea Banking
- Skin Banking
- Musculoskeletal Banking
- Tissue and Cell Therapy

DIVING INTO D&T PROCESS

February - June 2027
Optional Face-to-face Preceptorship
8 June - 9 June

- Immersive visit to a hospital with VR glasses
- Interview with experts
- Videos recorded by experts in donation and transplantation
- Face to face preceptorship is optional, with the possibility to attend real cases in an accredited centre.

FINAL MASTER'S DISSERTATION

November 2026 - 10 June 2027
Oral defense: 10-11 June 2027

- Written master thesis with an oral defense
- Based on the applicability of the knowledge acquired.
- Practical and implementable in your workplace or professional career.
- Languages accepted for the FMD: English, Spanish, Catalan, French and Italian.

MASTER'S DIRECTOR

RICARD VALERO
Head of Anaetesiology Service
Hospital Clínic de Barcelona
Associate Professor
Universitat de Barcelona

MASTER'S COORDINATION

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MAITE PUJOL
Master's Coordinator
Learning Designer
DTI Foundation

UNIVERSITAT DE BARCELONA PROFESSORS

IRENE BELLO
Thoracic Surgeon
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ALBERTO VILLAMOR
Night Shift General Nurse Manager Hospital Clínic de Barcelona

PEDRO VENTURA
Transplant Nephrologist
Hospital Clínic de Barcelona

ASSESMENT

The Master's program follows a continuous assessment to ensure participants acquire an excellent level of contents' understanding. Every module will be graded through virtual campus activities with the support of tutors and experts. To reinforce learning, you will have a self-assessment quiz after each topic and a Final Evaluation Test on each module.

Additionally, a minimum attendance of 80% in the online live sessions is required to successfully complete the program.

ACADEMIC QUALIFICATION

This course is awarded a **60 ECTS** Master's degree diploma. The diploma awarded is a University of Barcelona - specific degree issued under Article 34 of the Organic Law on Universities.

PRE-ENROLMENT

To apply, submit your application form, CV and a motivation letter through our website. To be eligible you must hold a Bachelor's degree or an equivalent first academic degree from an internationally recognized university. If you hold a different type of qualification, you may still register. Upon completion of the course, you will receive an alternative certificate.

This Master's degree is endorsed by ESOT

ENROLMENT AND FEE

8520 €
(142 € per ECTS credit)

Optional face-to-face observership:
600 - 800 euros/week (minimum of 2 weeks)

The fee includes:

- Official registration
- Learning material
- Academic tuition throughout the course

Travel and lodging for attending the face-to-face parts of the program are not included.

Enrol here!

*5% discount for applicants from low-income countries (according to the list of LDCs of United Nations)

SUPPORTING ORGANIZATIONS

TerCel Red de Terapia Celular | iscii
SOCIETAT CATALANA DE TRASPLANTAMENT
Gesitra-IC
aebt Asociación Española de Bancos de Tejidos
Fundación JOSEP CARRERAS contra la leucemia
SOC_MIC Societat Catalana de Medicina Intensiva i Crítica
SOCIEDAD ADRIEÑA DE TRASPLANTES
SET SOCIEDAD ESPAÑOLA DE TRASPLANTE
Societat Catalana de Cirurgia Ortopèdica i Traumatologia
secot Sociedad Española de Cirugía Ortopédica y Traumatología
tcub Programa de teràpia cel·lular Universitat de Barcelona Facultat de Medicina
Sociedad Española Terapia Génica y Celular

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