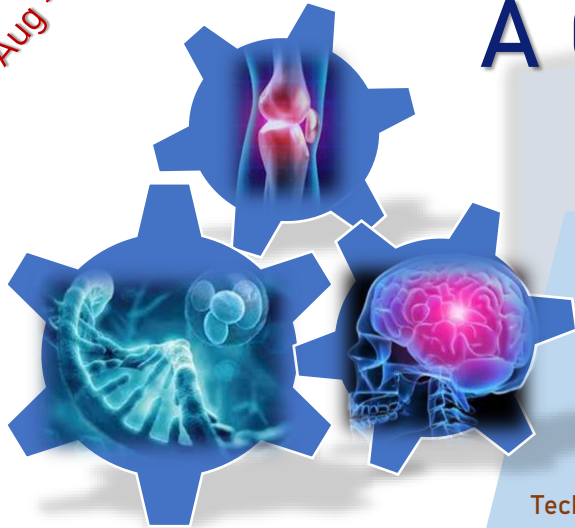


31 Aug – 04 Nov 2022

Minor Regenerative Medicine: A Game Changer Technology



Erasmus MC

Surgery
Internal Medicine
Orthopedics
Cell Biology
Psychiatry
Cardiology
Medical Ethics
Technology Transfer Office

TU Delft

Biomechanical Engineering

Biotech companies

MIMETAS

Contact:

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Regenerative Medicine is a multidisciplinary field aiming to harness the power of **stem cells** and **biomaterials** to model or replace diseased organs.

This minor provides a framework of basic knowledge to think creatively about **innovative strategies** and **technologies** at the cutting edge of medicine and biology



We offer:

- A **two-week visit** to (inter)nationally renowned laboratories
- **Inspirational lectures** and **lab demonstrations**
- Background and **clinical applications** of regenerative medicine
- **Theme weeks** focusing on different parts of the human body
- Background and tools to address related **ethical issues**
- **Sneak preview** of commercialization and spin-off **biotech companies**

Erasmus MC



Program Theme weeks

Don't miss out
on this exciting
Minor!

Introduction

- General intro
- Crash course gaps

Regenerative medicine of abdominal organs

- Thematic days
 - Liver
 - Kidney
 - Pancreas

Cardiovascular & respiratory systems and stem cell therapies

- Cardiac regenerative medicine
- Pulmonary system

Skeletal systems and 3D printing

- Thematic days
 - Muscle
 - Cartilage
 - Bone

Nervous systems and bio-electronics

- Psychiatric stem cells
- Developmental neurobiology
- Learning & memory

Tissue Engineering, biomaterials, and organ-on-a-chip technology

- Demo's & hands-on at TU Delft
- Company visit to Mimetas
- Valorisation and legal issues

Ethical issues

- Moral dangers
- Debate on ethical issues

Preparation lab visits, work on research proposal

Lab visits

- Two-week visit (inter)national experience
- Meet the experts!

Presentations

- Plenary presentations Research Proposal
- Plenary exchange of experiences lab visits



W8+9

W10

W1

W2

W3

W4

W5

W6

W7