Module title
Tissue Engineering / Functional Materials

Abbreviation
03-98-MVTF-122-m01

Module coordinator
holder of the Chair of Tissue Engineering (University Hospital)

Module offered by
Faculty of Medicine

ECTS
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Method of grading
Numerical grade

Only after succ. compl. of module(s)

Duration
1 semester

Module level
Graduate

Other prerequisites

Contents
Cell culture techniques, fundamentals of tissue engineering, test systems as an alternative to animal experiments in skin, intestine, lung, trachea, kidney, blood-brain barrier, tumours and other diseases, development of cell-based transplants, regulatory fundamentals for approval of medical products and drugs. These are REACH (registration, evaluation, restriction and approval of drugs), medicine products law, GLP (good lab practice), GMP (good manufacturing practice), GCP (good clinical practice).

Intended learning outcomes
Students have developed a knowledge of cell biology, metabolism, differentiation, adhesion to surfaces, mechanobiology. They are familiar with the fundamental principles of tissue engineering and quality management.

Courses
V (no information on SWS (weekly contact hours) and course language available)

Method of assessment
Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes)

Allocation of places

Additional information

Referred to in LPO I
(examination regulations for teaching-degree programmes)

Module appears in
Master's degree (1 major) Biochemistry (2012)
Master's degree (1 major) Biomedicine (2013)
Master's degree (1 major) Biomedicine (2012)