MU/ Masaryk university

GENERAL PRESENTATION

- NERSITAS SITAS SIT
- Location (city, country): Masaryk university, Brno, Czech Republic
- Director: Prof. PhDr. Mikuláš Bek, PhD. (rector)
- Contact person in NEWGEN: Prof. Ales Hampl, Prof. Sarka Pospisilova, sarka.pospisilova@fnbrno.cz
- ➤ Working Group involvment: WG2, WG3, WG4: 3D development of functional bone marrow and bone scaffolds for dental implants and bone marrow replacement
- > Staff: 42 (9 senior researchers, 24 junior researchers, 7 PhD students, 2 technicians)
- > Research expertise:
- Functioning of cells of hematopoietic cell lineage in norm and disease and interaction of these cells with cellular and acellular components of bone marrow (prof. Pospisilova, prof. Doubek)

Interaction of human embryonic stem cells (hESC) and human mesenchamister cells (hMSC) with synthetic substrates

(prof. Hampl, prof. Izakovicova-Holla)

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MU/ Masaryk university BIOMATERIALS/NEWGEN TOPICS

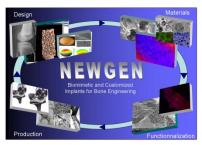


> Research topics:

- development of biopolymer based scaffolds for tissue engineering
- > application of biopolymer based scaffolds for bone marrow microenvironment analysis
- > analysing by in vitro assays interaction of materials with mesenchymal stem cells derived from human dental pulp
- > analysing in vitro interaction of materials with odontogenic and osteogenic cells derived by in vitro differentiation of hESC (via neural crest lineage)
- > development of animal models for in vivo evaluation of biocompatible (biomimetic, cell seeded,...) bone and dental grafts



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