

PhD position in bone tissue engineering

The Tissue Engineering Laboratory (TE Lab) at the Department of Biomedicine of the University Hospital Basel in Switzerland is currently seeking for a highly motivated PhD candidate. The project aims at the development and use of osteo-inductive, engineered biomaterials in preclinical models of osteonecrosis.

The Bone Tissue Engineering Team, headed by PD Dr. Arnaud Scherberich belongs to the TE Lab, directed by Prof. Ivan Martin. The TE Lab investigates mechanisms governing tissue regeneration and aims to translate this knowledge into innovative clinical approaches for cartilage and bone repair.

Your position

In the framework of a 4-year project funded by the Swiss National Science Foundation, you are responsible of a project aiming at:

- 1) Comparing different approaches to engineer hypertrophic cartilage tissues (HCT) and investigate the molecular processes involved
- 2) Generating devitalized osteo-inductive HCT
- 3) Investigating the implementation of such devitalized HCT into an osteonecrosis animal model.

Your profile

- Master level in Biomedical Sciences or equivalent
- Experience in molecular and cellular biology is mandatory
- Experience in Tissue Engineering/Regenerative Medicine or fundamental bone biology is a plus
- Excellent communication and presentation skills
- Outstanding motivation and capacity to address hypothesis-driven questions

We offer you

The Department of Biomedicine offers a research environment with excellent research facilities, ideal for building a scientific career. The city of Basel, located at the borders with both France and Germany, is one of leading pharmaceutical and biotechnological centers in the world

Application / Contact

Deadline for application: June 7, 2018

Candidates should send a CV, a short summary of research experience, and contact information for referees to: PD Dr Arnaud Scherberich (arnaud.scherberich@usb.ch)