



The Institute of Orthopaedic Research and Biomechanics is looking for PhD students (f/m/d) - Bone Regeneration after Fracture

The University Hospital Ulm and its employees stand for a modern and high quality patient care, excellent university research and medical education focused on the future as well as apprenticeships in attractive professional fields. The requirements for this are qualified and committed employees.

Institute:

The overall goal of the research activities at the Institute of Orthopaedic Research and Biomechanics (www.biomechanics.de) is to better understand the pathomechanisms of musculoskeletal disorders and to develop novel therapeutic strategies. The Institute is embedded in the Trauma Research Centre Ulm (ZTF) and member of the Collaborative Research Centre 1149 (CRC1149) "Danger response, disturbance factors and regeneration after acute trauma". We rely on a broad spectrum of innovative methods, an interdisciplinary research approach, and extensive local, national and international cooperation to perform high quality research. The excellent scientific environment within the institute guarantees ideal working conditions.

Project description:

We offer two PhD projects, both of them dealing with compromised bone regeneration after fracture. Poorly healing bone fractures are a major clinical problem but the reasons are still poorly understood. Particularly patients with osteoporosis are on a high risk for fracture healing complications. The PhD projects will focus on the role of immune cells (e.g., mast cells) and of reactive oxygen species in impaired healing of osteoporotic bone. The broad spectrum of methods comprises surgical mouse models, cell culture work as well as molecular biology, (immune) histology and imaging techniques. The PhD students have the opportunity to join the International Graduate School of Molecular Medicine Ulm (IGradU).

Start of the project: April 2024, Duration: 3 years

Candidates:

We are seeking excellent candidates (M.Sc. in biology, molecular medicine, biochemistry etc.) with a strong motivation to address biological and medical research questions with interdisciplinary approaches. Experience in immunology and molecular biology are advantageous.

We offer

The opportunity to work in a supportive and highly motivated team. Salary and benefits are given according to the German TV-L system. We offer a workplace health promotion, numerous training and continuing education opportunities and also support concerning the compatibility of job and family.



- \rightarrow Contract: limited
- ightarrow Level of employment: part-time
- → application deadline: 11.02.2024

Are you interested?

Then apply on basis of detailed applications containing CV, certificates, list of publications and references using our online form here:

Apply now!

Apply with profile

Contact:

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Die Einstellung erfolgt durch die Verwaltung des Klinikuns im Namen und im Auftrag des Landes Baden-Württemberg. Personen mit Schwerbehinderung werden bei gleicher Eignung vorrangig eingestellt. Das Universitätsklinikum Ulm strebt die Erhöhung des Frauenanteib in den Bereichen an, in denen sie unterrepräsentiert sind. Entsprechend qualifizierte Frauen werden um ihre Bewerbung gebeten. Eine an die Befristung anschließende Weiterbeschäftigung ist möglich.