SPITZE IN DER MEDIZIN. **MENSCHLICH** IN DER BEGEGNUNG.

Universitätsklinikum Regensburg

Regensburg University Hospital leads the field in research, teaching and patient care. We employ 4300 dedicated colleagues, who provide first-rate medical care for the whole of Eastern Bavaria. We offer cutting-edge medicine, and our top professionals have access to the latest and best equipment. We are committed to the highest level of medical and nursing care for our patients, and to a teamwork that respects and values our personnel.

The Department of Trauma Surgery - Laboratory for Experimental Trauma Surgery -
invites applications for a

POSTDOCTORAL POSITION (M/F)

for three years, prolongation possible

We are looking for a talented post doc as part of the Laboratory for Experimental Trauma Surgery within the Department of Traumatology (Director: Prof. Dr. Michael Nerlich) at the University Hospital Regensburg.
The Post-Doc position is under the leadership of Professor Peter Angele in a DFG grant "Preconditioning of mesenchymal stem cells with mechanobiological load and hypoxia for joint regeneration in moderate osteoarthritis" as part of the newly approved DFG Research Group ExCarBon (Exploring articular cartilage and subchondral bone degeneration and regeneration in osteoarthritis).

Requirements

- The applicants must hold a PhD degree
- Former publication in peer-reviewed international journals is of advantage

Our special interests are

- Biomechanically and hypoxia triggered influence and associated signalling pathways for cartilage regeneration with human MSCs
- Molecular and cellular pathways of cartilage regeneration
- Treatment of moderate osteoarthritis in vivo with preconditioned mesenchymal stem cells

Various techniques will be employed to reach our research goals using up-to-date working resources. Besides standard laboratory and cell culture techniques the following will be employed:

- Mechanobiological stimulation of cells and tissues
- Analysis of mechanosensitive and hypoxia-induced pathways (e.g. PI3K/Akt signaling)
- HIF protein expression, micro-CT, nanoCT, IT-AFM, neuronal expression profiling
- Destructive and protective effects on chondrogenesis during catabolism in vitro and in-vivo
- In-Vivo model for moderate osteoarthritis and regenerative treatment approaches

We offer

- Varied and demanding tasks in the dynamic field of medicine and science
- A contract of employment for 3 years with possible prolongation
- Flexible working hours reconciling career and family
- Help finding accommodation, reduced-price bus pass, free parking, childcare, and much more

The post is remunerated on the TV-L salary scale. Preference will be given to disabled applicants with equal qualifications. Please indicate disablement in your application. Please submit your application per email, including cover letter, curriculum vitae and a publication list

by April 22, 2016 to
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