

Prof. Kuhn, Physiologisches Institut, Röntgenring 9, 97070 Würzburg

☎ +49 (0)931 31-82720/21  
Fax: +49 (0)931 31-82741  
e-Mail: michaela.kuhn@mail.uni-wuerzburg.de

The Institute of Physiology at the University of Würzburg requests applications for

**Postdoctoral and Doctoral research fellows**

**to study the paracrine roles of the endothelial hormone C-type natriuretic peptide (CNP).**

We are seeking exceptional and highly motivated candidates in the field of cardiovascular biology and signal transduction particularly focusing on novel aspects of an endothelial hormone and its cyclic GMP-mediated signalling (Physiol Rev. 2016;96:751; Circulation. 2018;138:494). Applicants will have a completed degree in biology, (hum. or vet.) medicine, pharmacy or a related field in natural sciences, good knowledge of basic molecular biology and/or cardiovascular functional analyses, and enthusiastic interest in cardiovascular research.

The overall goal of the project is to dissect the significance and therapeutic potential of CNP/cyclic GMP signalling in the regulation of cardiac remodelling (project 1, with a special focus on cardiac fibroblasts and pericytes) and inflammation (project 2, with a special focus on connective tissue mast cells). The multidisciplinary approach will utilize a variety of methods including molecular biology, biochemistry, high-end microscopy and functional analyses in novel genetic mouse models and relevant cell culture systems. In collaboration with the group of Prof. V.O. Nikolaev (German Center for Cardiovascular Research (DZHK), Hamburg) we will use sophisticated FRET techniques to image the second messengers cAMP and cGMP in living cells and in real time.

The projects are part of a network of Würzburg scientists and clinicians representing six faculties and eleven institutes/clinics, linking their expertise and infrastructure for investigating the mechanisms of cardiovascular cell-cell interactions, and molecular and functional imaging of these interactions (see Transregio 166). The Institute of Physiology is part of this network and offers modern techniques which allow to answer scientific questions in an interdisciplinary way.

The University of Würzburg is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply. Disabled persons with equivalent aptitude will be favoured.

Applicants please send CV and contact coordinates of 1-2 references (as a single PDF file) by April 30, 2019 to Dr. Michaela Kuhn, Physiologisches Institut I, Universität Würzburg, Röntgenring 9, D-97070 Würzburg, Germany. Tel.: (00)49 931 31 82721, E-Mail: sekretariat-kuhn@uni-wuerzburg.de