

Doctoral Thesis (PhD) in Pain Research Laboratory of Jan Siemens - Heidelberg University

We are looking for a motivated Doctoral Student with an interest in studying neuronal pathways and cell-molecular mechanisms of pain sensation.

The project is concerned with understanding energy-metabolic coupling of spinal neurons and glia in the context of maladaptive spinal plasticity mediating chronic pain.

Experimental work will include using the mouse as a model system combined with multidisciplinary ex-vivo and in vivo approaches, such as metabolic analysis / metabolic flux measurements, genetic mouse models, behavior experiments and testing of experimental analgesic drug candidates targeting a metabolic signaling pathway.

For more information on the ERC-funded Siemens-lab see: <http://www.siemenslab.de/> and/or follow us on Twitter @jansiemens2

The project is part of a pain research consortium of the German research foundation <https://www.sfb1158.de/>

As a graduate student in the Siemens Lab, it is possible to apply to/enroll in the following graduate programs (if respective eligibility criteria are met by the candidate):

<http://www.hbigs.uni-heidelberg.de/>
<https://www.uni-heidelberg.de/izn/teaching/doctor.html>
<https://www.embl.org/about/info/embl-international-phd-programme/>

If you are excited about neurophysiology, interested in understanding pain mechanisms, ideally have some experience in animal research and envision for yourself to work in an international research group, then send your CV, brief description of research background & interests as well as names of one or two colleagues who have agreed to write reference letters on your behalf to:
jes@pharma.uni-heidelberg.de

Starting Date: flexible – preferably within the first half of 2023

