

## Two postdoc positions available NOW!!!

We are looking for 2 highly-motivated postdoc candidates to work on our recently funded project “human pluripotent stem cell-derived neurons as a tool to study central and peripheral nociceptive mechanisms”. Our project is part of the 2<sup>nd</sup> funding period of the Heidelberg Pain Consortium SFB1158 ([www.sfb1158.de](http://www.sfb1158.de)).

Deriving human neurons from pluripotent stem cells has become an essential tool to study mechanisms of brain disease, to validate findings in a human-cell background, and to assess efficacy, toxicity and tolerance of newly-developed drugs. **Our project aims to develop and use this technology in the context of pain research.** We plan to implement and use novel protocols to differentiate multiple types of peripheral and central neuronal and non-neuronal cells essential to study pain, co-culture systems to reconstitute rudimentary networks, and a pipeline for analysis that involves RNAseq, electrophysiology, imaging, and super-resolution microscopy. Experience in one or several of the following areas would be preferably but not necessary:

- Human ESC or iPSC culture techniques
- Patch clamp/calcium imaging
- RNAseq analysis
- CRISPR/gene targeting techniques
- Super-resolution microscopy

Candidates should send their CV, a brief description of their research background & interests and names/contact of referees to:

[katrin.schrenk-siemens@pharma.uni-heidelberg.de](mailto:katrin.schrenk-siemens@pharma.uni-heidelberg.de)

[acuna@uni-heidelberg.de](mailto:acuna@uni-heidelberg.de)



**HEIDELBERG**  
FACULTY OF  
MEDICINE