

How do skin cells induce pain?

PhD position in pain research – Department of Neurology, University Hospital of Würzburg

Background: Neuropathic pain is frequent and immensely reduces patients` quality of life. We ask, which active role skin cells do play in sensitizing peripheral nociceptors and use patient biomaterial and fully human cell culture systems.

Who are we? We are a young and successful scientific team in “Translational Somatosensorics” focusing on pain research and are located at the Department of Neurology, University Hospital of Würzburg.

Whom do we seek for? An industrious PhD candidate of Life Sciences or related Faculty we can count on and who is enthusiastic about scientific work.

Tasks PhD candidate:

- Immunolabeling of human biomaterial and advanced microscopy
- Gene expression analysis
- Reprogramming and differentiation of iPSC-derived neurons
- CRISPR-Cas9 gene editing
- Patch clamp analysis and multi-electrode-array

Prerequisites: Cell culture experience is mandatory. Practical knowledge in stem cell research and electrophysiology is beneficial. The candidate is highly motivated to process an exciting project and become part of our enthusiastic team.

Funding: Our project is funded by the “Deutsche Forschungsgemeinschaft” (DFG).

Start and duration: Start is possible from October 2023, 3 years, 65% TVL-E13.

PI and contact: Please send your application including a motivation letter to Prof. Üceyler ueceyler_n@ukw.de.