



The Interdisciplinary Center for Neurosciences (IZN) – Neurobiology Institute, at Heidelberg University is looking for a:

### **Postdoctoral scientist**

To join the groups Dr. Annarita Patrizi and Dr. Daniela Mauceri. The successful candidate will investigate the role of the choroid plexus, a specialized endothelial-epithelial tissue, in mediating the brain-body interactions in pathologies. The project is embedded within the ERA-NET Neuron ChorNEXUS project and includes *in vivo* experiments in which mouse models of acute and chronic pain are employed. The project relies on an integrative approach that combines behavioral, molecular, genetic, and biochemical methods with imaging techniques.

### **Skills/Qualifications**

The successful candidate will hold a PhD in Neuroscience or related areas, should be highly motivated, with strong organization skills and attention to detail, propensity to structure analytical steps in well-documented and reproducible workflows and towards independent work and planning. Candidates must be able to manage competing priorities in a fast-paced environment. Fluency in English and the ability to work in an international environment is mandatory.

Candidates with prior experience conducting experiments with animal models including certification for animal experimentation (FELASA) will have priority. Additional relevant skills include microscopy, immunohistochemistry, biochemistry, molecular and cellular biology.

### **Position Benefits**

The position is fully funded within the international newly established ERA-NET ChorNexus consortium. Employment, payment and social benefits are according to the Public Sector Collective Agreement (Tarifvertrag für den öffentlichen Dienst – TVöD). The position is for three years and is expected to start in May 2025.

Heidelberg region is a scientific hub that houses several internationally renowned research institutes. Heidelberg University offers a thriving, international community with state-of-the-art facilities. Our groups are part of the Interdisciplinary Center for Neuroscience (IZN; <https://www.izn.uni-heidelberg.de/en>) that includes several research groups committed to study Neuroscience at various levels.

### **Application Instructions**

Deadline for application is 21<sup>st</sup> February, 2025.

Applications as a single PDF file written in English including a cover letter explaining your motivations and previous work, a CV with a list of publications, and two reference letters should be sent to both Dr. Mauceri and Dr. Patrizi by e-mail ([mauceri@nbio.uni-heidelberg.de](mailto:mauceri@nbio.uni-heidelberg.de); [annaritapatrizi@hotmail.com](mailto:annaritapatrizi@hotmail.com)).

## Relevant publications

Choroid plexuses carry nodal-like cilia that undergo axoneme regression from early adult stage.

Ho KH, Candat A, Scarpetta V, Faucourt M, Weill S, Salio C, D'Este E, Meschkat M, Wurm CA, Kneussel M, Janke C, Magiera MM, Genovesio A, Meunier A, Sassoè-Pognetto M, Brill MS, Spassky N, Patrizi A

Dev. Cell, 58, 2641-2651.e6 doi: 10.1016/j.devcel.2023.10.003.

Single-nucleus RNA-seq dissection of choroid plexus tumor cell heterogeneity.

Hill AD, Okonechnikov K, Herr MK, Thomas C, Thongjuea S, Hasselblatt M, Patrizi A. EMBO J. 43, 6766-6791. doi: 10.1038/s44318-024-00283-2. Epub 2024 Oct 31.

Organic Anion Transporter 1 is an HDAC4-regulated mediator of nociceptive hypersensitivity in mice.

Litke C, Hagenston AM, Kenkel AK, Paldy E, Lu J, Kuner R, Mauceri D

Nat Communication, 13, 875 <https://doi.org/10.1038/s41467-022-28357-x> 2022

Epigenetic control of hypersensitivity in chronic inflammatory pain by the de novo DNA methyltransferase Dnmt3a2

Oliveira AM, Litke C, Paldy E, Hagenston AM, Lu J, Kuner R, Bading H, Mauceri D.

Mol Pain 15:1744806919827469, 2019