

Hosting group information for applicants

Name of DKFZ research division/group:

Brain Mosaicism and Tumorigenesis (B400)

Contact person: **Pei-Chi Wei (p.wei@dkfz-heidelberg.de) 6221 42 3251**

Group homepage: <https://www.dkfz.de/en/genomintegritaet-neuronaler-stammzellen/index.php>

Please visit our website for further information on our research and recent publications.

RESEARCH PROFILE AND PROJECT TOPICS:

The Wei lab is seeking a postdoctoral fellow to work on a European Research Council-funded project addressing the source of neuronal genomic mosaicism in the brain. Our missions are to elucidate the source of recurrent genomic alterations that contribute to brain diseases, such as cancer and neuropsychiatric disorder, and explore when and how the neuronal cells diversify their genomes.

Our group utilizes state-of-the-art technologies to understand (1) the molecular mechanism of DNA lesions in the neural stem and progenitor cells, (2) characterizing the landscape of genomic damage in the developing brain, and (3) addressing the fate of neural stem cells under genotoxic stress. Approaches, including high-throughput sequencing, omics data analyses, stem cell culture, mouse models, single-cell transcriptomics, and mathematical modeling, will be applied to this project.

The postdoc researcher will join a collaborative, energized, and collegial group. The postdoctoral recruit will work with the principle investigator closely to develop an independent project in a supportive environment. Key core facilities supporting genomics, proteomics, cytometry, microscopy, and preclinical animal center have been established at the DKFZ to support the diverse research activities within the campus. The principle investigator will personally develop your scientific career. To be specific, you will participate in grant writing, project management, supervising students, and other activities which are required for obtaining an independent position in research facilities.

Requirements:

- PhD in cellular and molecular biology, genetics, neuroscience or a related field
- Prior experience in animal model, DNA damage, embryonic neurogenesis or cell-fate mapping are preferred.
- Excellent written and verbal communication skills in English
- An outstanding scientific record
- Ability to develop an independent project within the lab



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