



IMBS

International Milstein-Köhler
Program in Biomedical Sciences



universität freiburg

Postdoc position in fungal infections and cell death regulation (100% or part-time)

The research group of Prof. Christoph Borner at the Institute of Molecular Medicine of the University of Freiburg, Germany, is seeking a highly motivated and enthusiastic Postdoc to develop an animal model of fungal infections and to find new therapies to prevent Aspergillosis in mice and humans. The candidate will have a unique opportunity to work in a well-known research group working on cell death mechanisms and to obtain experience in student and PhD teaching and supervision.

Job description

The postdoc will develop a protocol to effectively immunocompromise mice and to instill *Aspergillus fumigatus* spores into their lungs. Lung tissues will then be isolated, dissected and analyzed for fungal infections. New therapeutics will be tested to prevent fungal invasion of the lung and the development of Aspergillosis in mice. In addition, the postdoc will perform *in vitro* work on human and murine cells to better understand the molecular mechanisms of gliotoxin-induced cell death (Geissler et al., Cell Death Differ, 2014, Haun et al., Nature Commun, 2018) and supervise two PhD students in the area of cell death regulation by herpesviruses.

Profile

The successful candidate should have a background in cell biology, biochemistry, molecular biology, or related fields, and have experience in mouse handling, including the permission (FELASA) to perform animal experiments. Further experience in confocal microscopy, flow cytometry (FACS), histological preparation of mouse tissues and gene editing by CRISPR-Cas9 will be highly beneficial. Good communication skills, the readiness to supervise PhD and master students and a proactive work attitude are required. The Postdoc must be able to fluently communicate in English (oral and written) and be willing to work in a highly interactive and collaborative international environment.

Academic excellence, a professional work attitude, and a self-driven nature are expected. The position can be full or part time and is funded for 2 years. The starting date is flexible but must be before 10-2024. Please send your application to christoph.borner@uniklinik-freiburg.de.