

PhD student position molecular biology/cell biology (TV-L E13 65%, four years)

University Medical Center Schleswig-Holstein Campus Kiel, Institute of Immunology

Job description:

Cell death is essential for the removal of unwanted or potentially harmful cells and thus for the survival and homeostasis of multicellular organisms. In apoptotic cell death, the role of proteases (caspases) is firmly established, in contrast to non-apoptotic forms of cell death (e.g., necroptosis). Within the project, the successful applicant (m/f) will 1. further analyze the mechanisms and signaling pathways by which the protease HtrA2/Omi mediates necroptosis, 2. characterize a novel, previously undescribed role of the protease ADAM17 in necroptosis, and 3. investigate the species-specific function of caspase-8 in the regulation of necroptosis. The successful applicant (m/f) will contribute to a more precise understanding of the relevance of the above factors in disease by performing in vitro studies using a broad range of technologies such as RNA interference, CRISPR/Cas9, reconstitution of knockout cell lines, immunomagnetic isolation and proteomic/mass spectrometric analysis of death signaling complexes, interaction studies by confocal laserscanning microscopy and Co-IP, Western blot as well as functional assays.

The successful applicant (m/f) will work within the project "Proteolysis in the Regulation of Non-apoptotic Cell Death". The project is embedded into the DFG Collaborative Research Centre 877 "Proteolysis as a Regulatory Event in Pathophysiology" and will be carried out in close collaboration with other groups of the CRC.

Your profile:

We are looking for a highly motivated and skilled individual with a master's degree or diploma and experience in molecular biology, cell biology or biochemistry. Knowledge of the field of regulated necrosis and proteomic analysis of signaling complexes is a plus.

What we offer:

This is a fixed-term position for four years. Weekly working time is 65% of a full-time position (currently 38,50 hours per week) with the possibility to prepare a PhD thesis. Salary will be, depending on qualifications, according to the German salary scale 13 TV-L. The preferred starting date is July 1st 2018.

The University Medical Center Schleswig-Holstein has been certified as a family-friendly institution and is committed to further improve the compatibility of work and family life. The University Medical Center Schleswig-Holstein is an equal opportunity employer. People with disabilities will be given preference in case of equal qualifications.

Additional Information:

For more details on the position, please contact Prof. Dieter Adam, Institute of Immunology, via phone at +49-431-500-31020 or via e-mail (dadam@email.uni-kiel.de). Questions on administrative aspects can be addressed via e-mail to karriere@uksh.de. Please submit your application (application letter, CV and names of 2 references in a single PDF file) until 3 weeks, indicating your earliest possible starting date as well as the reference number 20180468.206.CL. Please apply via our online portal: www.uksh.de/Bewerbung.html?nr=28180468