

Department of Hematology, Hemostasis, Oncology and Stem Cell Transplantation

PhD candidate (f/d/m) in Neuro-Immune-Interactions

The Hannover Medical School (MHH), with about 10.000 employees the biggest company of Lower Saxony, is a university institution for research and teaching in human and dental medicine and a university hospital of supra-maximum medical care. Research, teaching, medical care and administration work hand in hand in the integration model at the MHH-campus.

The Research Group under the leadership of Dr. Caroline Perner at the Department of Hematology, Hemostasis, Oncology, and Stem Cell Transplantation, is pleased to announce an exciting opportunity for a highly motivated PhD candidate.

The group focuses on the investigation of the intricate interplay and regulatory dynamics between peripheral sensory neurons and immune cells. By means of neuropeptides such as Substance P, CGRP, and VIP, peripheral sensory neurons possess the capacity to actively modulate immune cells within their immediate microenvironment, or orchestrate their recruitment through endocrine signaling. Consequently, the modulation of sensory neurons or neuropeptides represents a promising novel avenue for potential intervention in various inflammatory and infectious diseases.

This research endeavor will primarily focus on elucidating the fundamental mechanisms through which neuropeptides like CGRP and Substance P, released by sensory neurons, induce alterations in the states and functions of different immune cell types across various biological contexts.

Your Profile:

- Master's degree in Biology, Biochemistry, Systems Biology, Neuroscience or equivalent
- highly self-motivated with a genuine interest in immunology and neuroscience
- preferably: experience in computational biology and high motivation to develop analytical strategies to integrate complex datasets and decipher novel aspects of neuro-immune biology

We offer:

- A position in a well-equipped laboratory of a high-quality institution, which harbors several state-of-the-art facilities
- Close mentoring with regular personal and group meetings and the opportunity to connect and collaborate with a worldwide network of leaders in the field
- Integration in a friendly team of highly motivated scientists and physicians
- A contract with Hannover Medical School (MHH) according to the collective labor agreement for public service employees of the federal states of Germany (TV-L)
- Temporary full-time position with one of the largest employers in Lower Saxony and an excellent university hospital
- Personal and professional development opportunities - supported by our diverse internal and external training and continuing education programs
- A job ticket for public transport
- An excellent range of sports, counseling and preventive care programs - because your health is close to our hearts

You have any questions beforehand?

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