

PhD position open

Elucidating pathomechanisms and developing therapies for autoimmune diseases of the CNS using iPSC derived *in-vitro* models.

The “Clinical Neuroimmunology Group” led by Prof. Friedemann Paul in the Experimental and Clinical Research Center (ECRC) at the Charité Universitätsklinik Berlin (Germany) is looking for a PhD student (m/f/d). The position is available immediately. Applications will be considered on a rolling basis until the position is filled.

About the project

In this project we will establish *in vitro* co-culture models to study pathomechanisms and possible therapeutic approaches for Neuromyelitis optica spectrum disorder (NMOSD), a devastating inflammatory disease of the central nervous system (CNS) with a disease specific autoantibody against the water channel aquaporin 4 (AQP4). Patients suffer from blindness, as well as motoric and sensory deficits. There is currently no cure for NMOSD and patients often encounter relapses and accumulate disease burden over time. To establish our *in vitro* model we will use NMOSD patient stem cell (iPSCs) derived neurons and astrocytes and co-culture them with autologous patient derived immune cells and autoantibodies.

About the advertised position

We are looking for a highly motivated scientist, who easily integrates into an interdisciplinary and international team, works independently and enjoys scientific discussions. Experience in cell culture and specifically iPSC handling is a plus.

How to apply

Candidates should have a master degree in biology, biochemistry, neuroscience or cell/molecular biology or a related field. To apply, please email a short cover letter stating your motivation to join the lab and your research interests, a CV, and the contact information for at least two references to Maria Hastermann (maria.hastermann@charite.de). Employment, salary and social benefits are determined by the Public Sector Collective Agreement (TVÖD Bund – TV-L E13-65%).

ECRC

Experimental and Clinical
Research Center (ECRC) in Berlin-Buch



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