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Junior Clinician Scientist
nTTP-GCT-Cohort 2025

AG Clinical Neuroimmunology
Experimental and Clinical Research Center (ECRC)
CHARITÉ - UNIVERSITÄTSMEDIZIN BERLIN

Fields of Research:

- Neuroimmunology
- T Cell Biology/Advanced Cell Therapies
- Animal Disease Models
- hPSC Derived Disease Models

Contact:

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Translational Scientist
Elected Fellow Representative
nTTP-GCT-Cohort 2025

AG Friedemann Paul (ECRC)
CHARITÉ - UNIVERSITÄTSMEDIZIN BERLIN

Fields of Research:

- Immunology/Advanced Cell Therapies
- mRNA Design and Translation
- Neurobiology
- Immunobiology/Virology

Contact:

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Curative approaches for autoimmune diseases with tolerizing cellular therapy

Project Description:

Within this project, we are working on the development of an *in-vitro* co-culture model for inflammatory autoimmune diseases. We will analyze brain organoids integrated with immune cells to gain insights into their effects on CNS development and to investigate the efficacy of novel therapies for various autoimmune diseases of the central nervous system. The project is embedded within the larger research initiative “AI-MSO-OKI-supported analysis, modeling, and synthesis (design) of organoids,” which is funded by the Carl Zeiss Foundation (CZS Breakthroughs: Synthetics) in cooperation with the Technical University of Ilmenau (Project coordination by Prof. Jana de Wiljes).

The Zeiss project aims to develop adaptive, personalized medicine in the form of individual therapies tailored specifically to individual patients and/or groups, making it a crucial component of modern treatment methods for various diseases. A fundamental basis for this therapeutic approach is the development of specialized models that reflect individualization and can synthetically replicate the disease’s temporal progression and its response to therapeutic interventions.

