interdisziplinäres Zentrum für Klinische Forschung

Clinician Scientist Programme - Biosketch Module Step 1

Title/ First Name/ Last Name

Razvan-Marius Brazdis

Clinic

Department of Psychiatry and Psychotherapy

CV (Current position, academic career, achievements and extracurricular activities, languages)

Current position:
2019-present Assistant physician at the Department of Psychiatry and Psychotherapy at the University Hospital Erlangen
Achievements and extracurricular activities:
2021 Doctoral thesis degree, summa cum laude
2017-2019 Student Research Assistant at the Department of Stem Cell Biology at the University Hospital Erlangen
2016-2017 MD Scholarship - Research Training Group 2162 – "Neurodevelopment and Vulnerability of the Central Nervous System"
Languages:
Romanian – Native language, Deutsch – Fluent (C1), Englisch – Fluent (C1), Französisch – Basics (A1)

Research Area

Neurosciences

CSP Project Outline

Evidence suggest a connection between α-Synuclein (α-Syn) pathology and alterations of sphingolipid metabolizing enzymes. I would like to analyze the activity of enzymes involved in synthesizing or degrading ceramide, as a central sphingolipid molecule, in the context of Parkinson's disease (as a representative synucleinopathy condition) and depression (as a condition known for alterations in sphingolipid metabolism).
Using human induced pluripotent stem cells derived neuronal models, I aim at elucidating the effect of altered sphingolipid enzymes on α-Syn aggregation as well as the effect of α-Syn overexpression and aggregation in neural cell lines on the activity and expression of sphingolipid enzymes.

Most important/ first Publication (or Title Dissertation)

Brazdis, R.-M., Alecu, J., Marsch, D., Dahms, A., Simmnacher, K., Lörentz S., Brendler, A., Schneider, Y., Marxreiter, F., Roybon, L., Winner, B., Xiang, W., Prots, I. (2020). "Demonstration of brain region-specific neuronal vulnerability in human iPSC-based model of familial Parkinson's disease". Hum Mol Genet. 2020 Mar 11; ddaa039. doi: 10.1093/hmg/ddaa039.