

PhD thesis offer

How human neurons get sick: Disease modeling of neurodegenerative diseases using hiPSCs

We have currently one Ph.D. position open and will optionally recruit during the fall selection 2015 of the Dresden International Graduate School for Biomedicine and Bioengineering.

Project proposal

Goal: The overall goal is to investigate human cell models of amyotrophic lateral sclerosis (ALS) using human patient specific induced pluripotent stem cells (hiPSCs) as model cells for studies on the molecular pathophysiology of ALS.

We specifically are interested how defects of nuclear proteins cause axonal phenotypes using live cell imaging techniques, inhibitor studies, laser irradiation, -omics approaches.

Significance: The pathophysiological investigations will contribute to the understanding of the molecular and cellular pathophysiology of ALS.

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