Biomedical or BMB student to investigate the reparatory function of a novel astrocyte SDU **S** related pathway in multiple sclerosis

Project

Professor Zsolt lles' research group is looking for a Bachelor's, Master's or ISA student to study molecules that contribute to repair of brain lesions in multiple sclerosis.

Research activities:

The student will perform experiments to evaluate the function of a cytokine receptor and and a transcription factor in:

1) The brains of genetically modified mice during demyelination and remyelination

2) Astrocytes differentiation from neural stem cells

Together we will tailor the project to your level and preferences. Possible methods include: The cuprizone mouse model, iPSC differentiation, primary cell cultures, RT-qPCR, ELISA, and fluorescence microscopy.

Project start will arranged to fit the study program of the student

For more information please contact PhD student Kirsten Hyrlov at khyrlov@health.sdu.dk





Hypothesis

We hypothesize that the brain contains a subtype of reparatory astrocytes, in which activation of a novel cytokine receptor-transcription factor pathway leads to activation of target genes that promote remyelination/repair.