



1 PhD student for the project “The role of the transcription factor SOX10 in peripheral nerve regeneration”

One PhD position (65%/ 3 years funding secured) is available at the **Institute of Neurobiochemistry** under the supervision of Dr. Sofia Meyer zu Reckendorf.
The preferred starting time would be August 2023 or earlier.

Topic:

Peripheral nerve injuries (PNIs) are diagnosed in 2-3 % of patients admitted to trauma centers. Although peripheral nerves have an intrinsic regeneration potential, spontaneous regeneration is limited in humans. Even after surgical intervention, the functional ability is often not restored, which leads to a severe impairment of the patients' quality of life.

In this project, we want to explore new ways to improve nerve regeneration. In our previously published work (Meyer zu Reckendorf et al., Nature Communications, 2020) we identified sphingosine and PPAR γ signaling as promising candidates for the modulation of nerve regeneration *ex vivo*. Now, we will analyze the role of the transcription factor SOX10 in peripheral nerve injury and regeneration *in vitro* in Schwann cell cultures and *in vivo* using the sciatic nerve injury model in mice.

Apart from our mouse model we have the unique opportunity to investigate human nerve samples *ex vivo* after injury. In this case, we are interested to analyze the role of SOX10 in human acutely or chronically injured nerves. The ultimate goal of the project is to identify interaction partners of SOX10 and investigate its potential as a drugable target to improve nerve regeneration.

If you are interested in the position please send a CV, transcript of records and names of references until Mai 31st 2023 to the following contact:

Anke Rudolph-Kuhn (secretary), anke.rudolph-kuhn@uni-ulm.de

For any further inquiries concerning the project please contact:

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