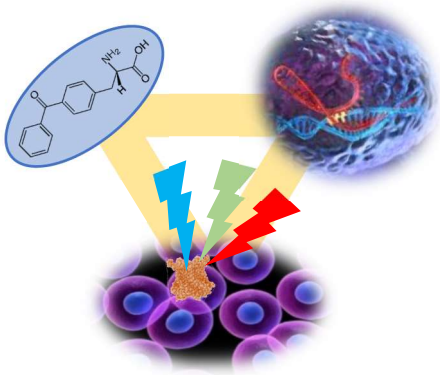
Master Student Position in Chemistry/ Biological Chemistry



We are looking for a motivated Master student with experience in chemistry/biochemistry and interest in molecular biology and biophysics.

Our laboratory uses the novel and emerging technology: genetic code expansion to transfer novel biochemical properties to ion channels. As selective modulation of ion channels is still rare, we aim to develop novel strategies for target-specific modulation. For that we aim to synthesize novel small molecules specifically targeting our ion channels of interest, with special focus on Ca^{2+} and Ca^{2+} activated K^{+} ion channels. These strategies might be relevant in future therapeutic strategies, in immune deficiency or cancer.

The Master thesis project includes the design of small molecules, the test for their effect on the protein of interest in vivo which will be investigated in proof-of-principle experiments.

The project offers extensive training in a variety of biochemical, molecular biology and biophysical techniques.

If you are an enthusiastic student interested in the molecular mechanisms of ion channels and the design of strategies for selective modulation and willing to promote the novel genetic code expansion technology, send an application plus CV per email to the address below.

Informal enquiries are welcome.

Assist. Prof. Dr. Isabella Derler

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