



PhD position in Experimental Biophysics

Biophysical characterization of light-activatable peptidomimetic inhibitors for CRAC channel

We are looking for a motivated and talented **PhD Student** to join our laboratories at the Divisions of **Biophysics** and **Physiological Chemistry** at the **Medical University of Graz** (Austria) in the context of the FWF International Joint Research Project **Light-activatable peptidomimetic inhibitors for CRAC channel** between Austria and Hungary.

The PhD Student will be part of a multidisciplinary and international team and her/his PhD Thesis will deal with the biophysical characterization of very novel peptidomimetic inhibitors of the calcium-release activated channel (CRAC) complex, which will be firstly designed and synthesized within the members of the project. The successful candidate will gain strong experience in live cell techniques such as Ca^{2+} imaging/influx, patch clamp, fluorescence resonance energy transfer microscopy, nuclear factor of activated T cells translocation assay.

The PhD candidate will be located in Graz, one of the more exciting and young cities in Austria, will be part of regular meetings within the Austrian and Hungarian partners, will benefit of the multidisciplinary team of this project, whose expertise covers molecular modeling, molecular design, peptide synthesis, photopharmacology, and organic synthesis.

The contract (3 years) will be established according to the FWF personal cost scheme (Doctoral candidate). The selected candidate is expected to start **October 1st 2022** and to take part into the **Molecular Medicine (MolMed) PhD School** of the Medical University of Graz.

Requirements

- MSc degree on Biophysics, Biochemistry, Biology, Chemistry or similar topic.
- Experience with cell culture techniques, fluorescence microscopy or with patch clamp is not required but would be an advantage.
- Knowledge in (membrane) protein expression and purification.
- Knowledge in *in vitro* biophysical methods (e.g., Isothermal Titration Calorimetry and/or Surface Plasmon Resonance) to study protein ligand interaction.

How to apply

If you are interested in the position, please check

<https://www.medunigraz.at/doktoratsstudien/phd-program/phd>

