



### PhD Position in GPCR Biochemistry & Biophysics

The **Molecular Biophysics Group**, led by Prof. Georg Krainer at the Institute of Molecular Biosciences (IMB), University of Graz, Austria, is seeking a highly motivated and talented **PhD candidate** to join the **ERC-funded project** “SignAlloMod: Decoding the Molecular Logic of G Protein-Coupled Receptor (GPCR) Signaling”.

#### About the Position:

This role focuses on **GPCR structure, dynamics, and interactions** at the **single-molecule level**, combining **biochemical, biophysical, and single-molecule approaches**. Key tasks include:

- **Expression & purification** of GPCRs in insect/mammalian cells
- **Reconstitution in nanodiscs/liposomes** & functional characterization
- **Development of single-molecule assays** to study GPCR signaling mechanisms

#### Who Should Apply:

Candidates must have (or be near completion of) a **Master's degree in Biochemistry, Biophysics, Structural Biology, or a related field** with expertise in:

- **Protein biochemistry & purification of membrane proteins (preferably GPCRs)**, including protein expression in insect & mammalian systems (**required**)
- Experience in **single-molecule methods** and **fluorescence spectroscopy** is desirable

#### What We Offer:

- **4-year fixed-term contract** (1 + 3 years, 75% FTE, approx. 39,000 € gross/year)
- **State-of-the-art facilities** for single-molecule research and protein biochemistry
- **Collaborative research environment & career development opportunities**

#### How to Apply:

Send a **single PDF** to [georg.krainer@uni-graz.at](mailto:georg.krainer@uni-graz.at), including:

1. **Cover letter** (research interests & expertise)
2. **CV & publication list**
3. **Contact info for 2–3 references**

Applications are reviewed **on a rolling basis** until the position is filled.

**Start Date:** As soon as possible or upon mutual agreement.

**Research Environment:** The **University of Graz** is one of Austria's largest academic institutions, fostering a collaborative and innovative research environment. Situated in the vibrant city of Graz, the **Institute of Molecular Biosciences (IMB)** provides cutting-edge infrastructure for interdisciplinary research at the interface of biophysics, biochemistry, and molecular biology.

**Our motto:** *We work for tomorrow.*

