

Fully funded PhD position in Organic Chemistry & Chemical Biology

4-years, fixed-term, 100%, Olomouc (Czech Republic)

Research project - **Bioorthogonal synthesis of fluorophores**

Small fluorescent molecules are indispensable tools for imaging biomolecules *in vitro* and *in vivo*. Traditionally, they are synthesized in the laboratory under well-defined conditions and subsequently administered. However, their distribution to the site of action is often associated with challenges, such as poor cell membrane penetration or non-specific binding. This project aims to develop chemical synthesis of state-of-the-art fluorophores directly within living systems, thereby providing new opportunities for visualizing biomolecules. The chemical tools developed in this project will be used to elucidate the function of bacterial peptides in cells and to understand lipid metabolism.

About us

Our newly established group at the Department of Organic Chemistry, Faculty of Science, Palacky University in Olomouc focuses on the development of innovative chemical tools for use in chemical biology. Our goal is to develop methods with broad applications in biological and medical research. We are a highly interdisciplinary team that emphasizes collaboration and mutual support among members. For more information, please visit our website.



www.markoslab.com

About you

Ideal candidates have studied chemistry or biology (Master's degree) with experience in organic synthesis and are passionate, creative, independent, and socially competent young scientists.

Interested?

Send your application to tanas.markos@gmail.com by including your CV, motivation letter, and names of at least two references. **Deadline:** 31st of July of 2024.

The projects are funded by the Experientia Foundation