

Master student project

Expected duration: ca 6 months

Start date: March 2022



PARIS
LODRON
UNIVERSITY
SALZBURG

Biosciences and
Medical Biology

We are looking for a **highly motivated student** with excellent curricular training in biochemistry/molecular biology to work on a **master thesis project** within the laboratory on Chemical Biology and Biological Therapeutics at the PLUS. The research project will support a larger initiative on therapeutic applications of extracellular vesicles (EV) and will be part of the Translational Research Center on Extracellular Vesicles (EV-TT) recently built up in close collaboration between the Paris-Lodron University of Salzburg (PLUS) and the Paracelsus Medical University (PMU), funded by the European Union and the county of Salzburg.

The successful candidate will investigate the stability of therapeutically relevant extracellular vesicles under different storage and treatment conditions and establish novel assays for single vesicle activity quantification. This project will be embedded within an interdisciplinary scientific effort directed at translating the basic biology of extracellular vesicles into therapeutic applications and offer experience at the interface of basic biomedical research, translation into clinical applications and collaborations with the pharmaceutical industry.

Techniques and learning opportunities:

- Culture of mammalian cells
- Isolation and analytical characterization of extracellular vesicles from different sources (fractionation, filtration, liquid chromatography (FPLC, HPLC), western blotting, light scattering, fluorescence correlation spectroscopy, ..)
- Advanced fluorescence microscopy (widefield, confocal, superresolution, automated image analysis)
- Biochemical engineering and surface chemistry
- Data analysis, documentation and presentation at group internal and external meetings
- Experience to work at the interface of basic research and pharmaceutical applications

Minimum requirements:

- Bachelors degree in Life Sciences
- Comprehensive knowledge in the areas of biochemistry and molecular biology
- Excellent command of the English language
- Excellent organisational skills

We specifically welcome applicants who:

- are enthusiastic to contribute to the evolution of a new laboratory
- are passionate to work in an interdisciplinary team towards a common mission
- are reliable
- have the desire and aptitude to acquire new knowledge
- think creatively and critically
- are motivated by translating basic science into therapeutic applications

Interested?

For more information please contact Prof. Nicole Meisner-Kober (+43 662 8044 7257). Applicants should submit an application including motivation letter, curriculum vitae, a copy of the certificate of your highest obtained degree, and contact information to: nicole.meisner-kober@plus.ac.at. Applications will be accepted until the position is filled.

Nicole Meisner-Kober, PhD

Professor of Chemical Biology and Biological Therapeutics

Group Leader Extracellular Vesicles and RNA Drugs

Co-Director EV-TT Center

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Europäische Union Investitionen in Wachstum & Beschäftigung Österreich.