

Master student project
Single vesicle microscopy
Expected duration: ca 4-6 months
Start date: as soon as possible



We are looking for a **highly motivated student** with excellent curricular training in biochemistry/molecular biology to work on a **master thesis project** within a new 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 a new Translational Research Center on Extracellular Vesicles (EV-TT) that is currently being built up in close collaboration between the Paris-Lodron University of Salzburg (PLUS) and the Paracelsus Medical University (PMU), funded by the county of Salzburg.

The successful candidate will develop strategies for quantitative and qualitative single vesicle characterisation by fluorescence microscopy using surface immobilisation chemistry and single vesicle fluorescence detection. This project will be embedded within an interdisciplinary scientific effort directed at translating the basic biology of extracellular vesicles into therapeutic applications.

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
- 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@sbg.ac.at. Applications will be accepted until the position is filled.

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