

## Master's project

The Penninger Lab at IMBA is looking for a motivated Master's student to perform a project (ideally Master's thesis) over the course of 12 Months.

### Project description:

A new *in vivo* approach developed in the lab allows the detailed characterization of cell type specific proteins and protein modifications during disease progression. This project aims to characterize the cellular proteome and post-translational modifications (PTMome) in various diseases including breast cancer, inflammatory bowel disease and nonalcoholic fatty liver disease. The student will be involved in setting up the experiment models (20%) and preparing and analyzing the samples using next generation proteomics approaches (80%).

### Methods:

- Cell culture (2D and organoid models)
- Mouse handling
- Protein chemistry
- Mass spectrometry
- Data analysis of high content proteomics data

### Requirements:

Highly organized and motivated student with lab experience. Focused working attitude. Excitement for protein chemistry, mass spectrometry and high content data analysis. Mouse handling will be required, but previous mouse experience is not a requirement.

### Contact for application:

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