MAX PERUTZ LABS VIENNA

Martens Lab

Master position available

We are looking for a highly motivated student to complement our team. Topic: "Molecular Mechanisms of Selective Autophagy in Neurodegeneration"

About the Martens lab

Autophagy plays a key role in protecting cells against starvation, organelle damage, intracellular pathogens and protein aggregation. The latter process is associated to neurodegenerative diseases, the most common being Alzheimer's and Parkinson's. You will dissect how autophagy receptors recognise proteins known to accumulate in the aging human brain. Protein aggregation patterns correlate well with dementia progression: despite its highly therapeutic relevance, very few studies attempted to understand autophagy-aggregates interplay at a mechanistic level.

About the research project

The project will focus on in vitro reconstitution of the autophagy machinery on aggregation-prone proteins, with a strong emphasis on understanding what molecular cues route them toward autophagic degradation. We are looking for a student with a genuine interest in advanced protein biochemistry methods.

We offer extensive training in molecular biology, biochemistry, microscopy and cell biology, a highly collaborative research environment and the possibility to conduct cutting edge research.

Application and Contact

Sascha Martens or Luca Ferrari
Max Perutz Labs, Dr.-Bohr-Gasse 9/5
Email: **sascha.martens@univie.ac.at**
Email: **luca.ferrari@univie.ac.at**

About the Max Perutz Labs

The Max Perutz Labs are a research institute established by the University of Vienna and the Medical University of Vienna to provide an environment for excellent, internationally recognized research and education in the field of Molecular Biology. Dedicated to a mechanistic understanding of fundamental biomedical processes, scientists at the Max Perutz Labs aim to link breakthroughs in basic research to advances in human health. The Max Perutz Labs are located at the Vienna BioCenter, one of Europe's hotspots for Life Sciences, and host around 50 research groups, involving more than 450 scientists and staff from 40 nations.
www.maxperutzlabs.ac.at