MAX PERUTZ LABS VIENNA

Ameres lab

Master's Student Position

About the Ameres lab

We are an internationally competitive, innovative and creative research group investigating fundamental cellular mechanisms in the regulation of gene expression and RNA metabolism by combining genome-wide experiments with cutting edge genetic-, molecular- and biochemical assays. We are looking for a highly motivated and dedicated master's student to work on a project aiming to systematically dissect RNA exosome, a key player involved in RNA processing and degradation in the mammalian system.

About the research project

Tight control of RNA processing and degradation is a crucial step of post-transcriptional gene regulation. The RNA exosome is an evolutionary conserved, essential, multisubunit protein complex involved in the maturation and/or degradation of most coding and non-coding RNA species. The RNA exosome has been extensively characterized at the structural and functional levels, however our understanding of the assembly, proteostatic control and nuclear import of RNA exosome subunits remain obscure. The advertised project utilizes various protein perturbation techniques (**inducible knockouts**, **degron-approaches**) combined with **flow-cytometry**, **microscopy** and **classical biochemistry** to gain in-depth insights into RNA exosome biology. The project offers the opportunity to acquire a broad range of technical skills and to learn to independently conduct a research project.

Candidates

Candidates are expected to be fluent in English, have excellent communication and inter-personal skills and to be highly motivated to become part of an international and multi-disciplinary research group. Candidates should hold a BSc. degree in Molecular Biology, Bio-chemistry, Cell Biology or a related field and have basic laboratory experience.

Application

Applications with a motivation letter and CV highlighting relevant theoretical and practical background should be sent to ameres.applications@maxperutzlabs.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 44 research groups, involving around 400 scientists and staff from more than 50 nations.

www.maxperutzlabs.ac.at

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