



sendoel lab

What we are doing:

We are studying how protein synthesis regulates different aspects of mammalian development and cancer. Recent advances in computational and experimental approaches to monitor protein synthesis identified numerous hitherto unknown microproteins, which either regulate a known protein or act independently. Our aim is to discover how the newly identified microproteins operate in cells and how they control homeostasis as well as cancer initiation and progression.

What you should bring:

You should strive for developing critical and independent thinking to tackle problems in basic research. You should be curious about the still unknown and willing to discuss your science with the group and also communicate with a broader audience. You should be actively engaged with your colleagues and willing to get involved in their research to give insightful input. Be open to wherever science leads you to.

What we offer:

We work in a highly international environment that is open for scientific discussions and encourages you to develop and pursue your own scientific ideas. We value independent thinking and experimenting and will help you to get to the next stage in your scientific career. We have expertise in applying state-of-the-art technologies to study questions at the frontier of science. We teach project and experimental design, various lab techniques, data analysis and interpretation, and will help you to deepen your presentation and writing skills.

What you will be working on:

You will pick a newly identified microprotein of the human or mouse translome and be guided through developing and executing a project to identify its role in cancer.

The list of techniques that you will touch on the way: large-scale data analysis, molecular cloning, cell culture and lentiviral techniques, various CRISPR techniques, microscopy, FACS, basic protein and RNA techniques, polysome and ribosome profiling, basic bioinformatics. Presentation and writing skills.



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