



MASTER THESIS

Quantitative Cell Biology of Genome Integrity Maintenance

Altmeyer lab, Irchel Campus, University of Zurich

Our young and international team is looking for a motivated M.Sc. student to join the lab.

Description: Research in our group aims at elucidating the mechanisms that human cells use to protect their genome from attrition and instability, and at understanding how these mechanisms are subverted in highly proliferative, mutation-prone cancer cells. In addition to employing a variety of standard molecular and biochemical methods as well as more advanced single molecule assays, we recently established quantitative image-based cytometry (QIBC) at the University of Zurich, a versatile high-content microscopy-based technique that combines the spatial resolution of state-of-the-art fluorescence microscopy with the power of dynamic cell population measurements traditionally known from flow cytometry. Co-supervised by an experienced postdoc or senior PhD student in the lab and by the research group leader you will apply these methods to characterise how rapidly dividing cells coordinate transcription, DNA replication and DNA repair.

Work environment: You will be part of a young and dynamic international research group of about 8-10 people embedded in the interactive and supportive environment of our Department, the Department of Molecular Mechanisms of Disease. You will participate in weekly group meetings, one-on-one discussions, progress report seminars and literature sessions and benefit from a comprehensive scientific education in a vibrant research environment.

Qualifications: You should have a genuine interest in cell biology and molecular cancer research, a high level of motivation, and feel comfortable and self-confident when working in the lab. Prior experience with mammalian cell culture and standard molecular biology techniques is a plus. Good communication skills and enthusiasm will allow you to productively interact with our team.

Applications: Interested candidates should contact us, or directly send their CV together with a short motivation letter to matthias.altmeyer@uzh.ch.

Starting date: Negotiable.

