Master Thesis in basic and translational uro-oncology

A Master Thesis Position in basic and translational uro-oncology is available at the Medical University of Vienna.

Research Area:
The basic and translational uro-oncology research lab at Medical University of Vienna is looking for a highly motivated Master’s student to perform their thesis focusing on computational bladder cancer genomics. The project is embedded within a collaboration between basic research- and data science-labs in the Department of Urology and the Center for Cancer Research at Medical University of Vienna (https://krebsforschung.meduniwien.ac.at/forschung/forschungsschwerpunkte/angewandte-und-experimentelle-onkologie/walter-berger/ and https://www.meduniwien.ac.at/hp/urologie/allgemeine-informationen/team/laborforschung/). Bladder cancer is a tumor type with poor prognosis and lack of effective treatment options. The project focuses on analysis of primary, patient-derived bladder cancer models on transcriptomic and genetic levels and contextualization with existing datasets derived directly from human tumors. By this, we aim at generating a comprehensively molecularly characterized cell panel. This will serve as basis for projects with the ultimate objective to identify novel treatment strategies for bladder cancer. The candidate should have skills and interest in tackling cancer biological questions using (R-based) computational tools. A focus will be laid on analysis of cancer cell transcriptomic and mutational landscapes. Additional cell biological/molecular biological wet-lab experiments (e.g., genetic or pharmacological perturbation of cell models to assess impact on cancer cell survival) in frame of the thesis are possible and encouraged.

Requirements:
- Bachelor in (molecular) biology, biotechnology, or a related discipline
- Experience in genomics data science is a strong plus
- Proactive approach to discussing and addressing research questions
- High level of self-motivation, curiosity, and drive to collaborate within a multi-disciplinary team
- Excellent verbal and written communication skills in English

We offer:
- A Master Thesis Position (9–12 months) in an internationally competitive research cooperation between the Department of Urology and Center for Cancer Research (CCR) located at the Vienna Medical Campus
- A monthly stipend for the duration of the Master Thesis (according to the FWF “Geringfügige Beschäftigte”): https://www.fwf.ac.at/de/forschungsfoerderung/personalkostensaetze
- A highly supportive, friendly and inspiring lab team atmosphere
- Access to state-of-the-art computational biology tools and cancer biology technologies via the CCR and Department of Urology

Application Details
Please prepare your application in English, containing:
- Curriculum vitae & letter of motivation
- (not mandatory) Transcripts (a list of completed Master courses– until now)
Please send your application documents to Bernhard Englinger, PhD:
bernhard.englinger@meduniwien.ac.at