PhD Position in Clinical Science
100 %, temporary employment

The PhD position is embedded within the ongoing efforts to broaden the precision oncology program at the University and University Hospital in Zurich. We are currently in the process of setting up new precision oncology protocols for solid tumors and the corresponding patient cohorts. The general goal is to establish unique platforms for in-depth tumor profiling (from solid and liquid biopsies).

Your responsibilities
The new PhD student should make significant contributions to the group's activities:

At the patient level:
- Ensure the capture of the Swiss Personalized Oncology Minimal Data Set (SPO MD)
- Prepare Molecular Reports (i.e. reports with the scientific findings from the analyses that are relevant for the Molecular Tumor Board)
- Support and/or develop processes to improve clinical decision-making with big data

At the cohort level:
- Apply and/or develop tools for big data analysis and visualization in collaboration with national and international bioinformatics groups
- Perform data-driven hypothesis-generation with the collected clinical data set and the results of the in-depth analyses
- Collaborate regularly with physicians and biologists within the clinic and in Switzerland

Your profile
- You hold a master degree in either medicine, biomedicine, biology or clinical science
- You have already some practical experience in the analysis of clinical data. We especially encourage the application of innovative methods such as machine learning approaches
- Knowledge in statistical methods and/or mathematical modeling is a plus
- You have a good command of the German language
- You are an innovative personality, who is both independent and a good team player

What we offer
We are a clinical research group with a strong emphasis in translational research (see Irmisch et al., The Tumor Profiler Study: integrated, multi-omic, functional tumor profiling for clinical decision support. Cancer Cell 2021). Our efforts are aimed at bridging the gap between clinic and precision biology. Our group maintains close ties to other departments at USZ as well as to clinics and laboratories in Switzerland.

The project is linked to the PHRT Technology Transfer Project "Microchip-based circulating tumor cell profiling and drug sensitivity testing to support clinical decisions in metastatic cancer patients".

For medical doctors there is the option to fulfill 20% of clinical work within the employment as PhD Student. The PhD program in Clinical Science offers an interesting curriculum providing skills in Epidemiology and Biostatistics. A variety of additional courses e.g. on academic writing or presentation skills are available.

Place of work
University Hospital Zurich, Rämistrasse 100, 8091 Zurich

Start of employment
The preferred employment start date is February 1, 2022 or to be mutually agreed. Please submit your application by December 1, 2021. Interviews with the candidates are planned for the beginning of January 2022.

Further information
For information on the PhD position: Prof. Dr. med. Dr. phil. Andreas Wicki

For information on the PhD program: Clinical Science

Please apply via our job portal http://www.jobs.uzh.ch.