

## **Translational research fellow in precision hematology/oncology**

Functional precision hematology for patients with resistant and refractory leukemia

### **Institut, Seminar, Klinik / Institute, Department, Clinic**

Division of Oncology University Children's Hospital Zurich

### **Description**

Using system's biology and functional genomic approaches with comprehensive patient-derived xenografts, we explore new ways to target drug resistant leukemia more specifically. We also lead a functional precision hematology effort in the framework of a large international consortium in which we explore the impact of systematic drug response profiling on patient samples in the context of clinical trials. Based on strong preliminary data, we are contributing to a first prospective international trial for a more personalized treatment of patients with relapsed and refractory acute leukemias. We explore new ways to integrate clinical genomic and phenotypic data to predict drug responses in the context of a European Grant focusing on bioinformatics. In this context, we offer a fellowship position with a focus on translational research with interesting perspectives in particular for training as physician-scientist in Hematology-Oncology.

The applicant will be involved in the development of the platform (harmonization, standardization, analytical workflow and integration in clinical trials), and in a related research project focusing on new biomarkers. This activity will be directly relevant to building an international competitive platform with significant clinical impact.

### **Responsibilities**

Major contribution to the work flow, set up and implementation of an international tumor board with functional drug response profiling data

Identification of new phenotypes, characterization and reporting

Contribution to a project testing a new approach to detect informative patterns by comprehensive flow cytometry in acute leukemia in cooperation with the lab of Prof Becher, Immunology UZH

In depth characterization of a relevant drug response phenotype

### **Beschäftigungsgrad / Workload in %**

100 %

### **Anforderungen / Qualifications**

We expect the successful candidate to integrate in a team of basic and clinical scientists at the forefront of translational research. Experience in multi-dimensional data analysis is a plus. Candidates should hold an MD or an MD-PhD degree. PhDs with strong interest in translational research are also encouraged to apply. Integration in clinical activities in the Division is possible as part-time.

### **Sprachkenntnisse / Language requirements**

English, German

**Computerkenntnisse / Computer skills**

Standard PC/Apple applications, Python, R, and/or matlab is a plus

**Wir bieten / We offer**

Two years of full funding, which is extendable, world-class research lab and modern facilities and close cooperation in a translational setting.

**Stellenantritt / This position opens on**

as soon as possible

**Auskunft erteilt / More information**

E-Mail

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and

[beat.bornhauser@kispi.uzh.ch](mailto:beat.bornhauser@kispi.uzh.ch)

**Bewerbungen / Application**

Please send your application including letter of motivation and CV to the indicated e-mail addresses:

[jean-pierre.bourquin@kispi.uzh.ch](mailto:jean-pierre.bourquin@kispi.uzh.ch)

and

[beat.bornhauser@kispi.uzh.ch](mailto:beat.bornhauser@kispi.uzh.ch)

**Bewerbungsfrist / Application deadline**

September 15th 2020