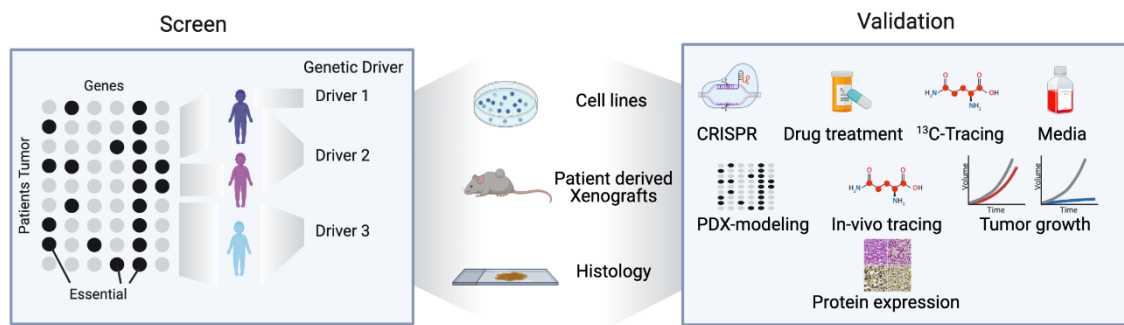


Master and PhD student candidates in pediatric cancer metabolism.



Targeting vulnerabilities in pediatric cancer metabolism.

We work at the fascinating intersection of pediatric cancer and metabolism. The central interest of our laboratory is to understand how cancers reprogram their metabolism to facilitate growth, adapt to different environments and how this knowledge could be used in modern personalized medicine approaches.

Projects are developed as an independent work or in a highly collaborative environment by contributing to a larger project. It is the basis of our work to integrate knowledge from pediatric oncology, inborn errors of metabolism and genetics to learn about basic disease mechanisms and identify new therapeutic targets. Techniques include CRISPR, immunoblotting, - fluorescence, cell culture (primary and cell lines), proliferation assays, drug sensitivity testing, metabolic tracing, and metabolomics. Small animal handling is optional. Depending on the student's interest and expertise we will define the techniques used and whether the emphasis will be more on the metabolic or cancer biology aspect.

If you want to contribute to our vision and you want your work to make a difference to our pediatric patients we always welcome new motivated team members.

In this project you are expected to work on a defined set of cell lines. You will learn to independently use techniques such as growth assays, drug treatment CRISPR and Sanger sequencing to validate results from a larger screen. Depending on sub-aims you will perform immunoblotting, - fluorescence, metabolic tracing, and metabolomics.

Application:

Please send a motivation letter and your CV to:

raphael.morscher@kispi.uzh.ch

Links:

[Morscherlab | Pediatric Cancer Metabolism](#)

[Raphael Johannes Morscher - Google Scholar](#)

[Morscher Raphael Johannes | Kinderspital Zürich \(uzh.ch\)](#)