



## TEDD Visit: University of Zurich Department of Pathology and Molecular Pathology

### DATE

7<sup>th</sup> June 2023

10:15 – 14:45

### INTRODUCTION

#### Our Clinical Activities

Our main focus is the development of high-fidelity patient-derived *ex-vivo* cancer models for functional precision oncology. With such an approach, we can complement static features by generating dynamic data that may encompass key vulnerabilities, including those conveyed by altered signalling pathways due to, for example, epigenetic changes not necessarily driven by distinct genomic aberrations.

Our functional precision oncology platforms integrate functional testing with comprehensive genomics, transcriptomics and clinical data in order to find druggable targets, redefine the standard of patient care, and improve patient outcomes.

#### Our Research Activities

Our research activities encompass medium to high throughput drug screening and CRISPR/Cas9 technologies on *ex-vivo* patient derived cancer models for the discovery and identification of novel drug targets and drug vulnerabilities in especially rare cancers such as soft tissue sarcomas and cancers that are difficult to treat (e.g. pancreatic cancer). We study the environmental influences

on drug responses using different hydrogels. With the establishment of resistant patient-derived *ex-vivo* cancer cell models, we obtain insight into the mechanism of acquired drug resistance. Together with our collaborators, we further pursue projects using cutting-edge machine learning algorithms to better predict drug responses in patient-derived *ex-vivo* cancer models.

More details about the event: <https://www.zhaw.ch/de/lsvm/forschung/chemie-und-biotechnologie/competence-centre-tedd/tedd-events/detail-events/event-news/tedd-university-visit-usz-2023/>

## ORGANIZATION

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## PROGRAM

- 10:15 - 10:45 Registration & Coffee
- 10:45 – 11:00 Welcome by Chantal Pauli and Markus Rimann
- 11:00 – 11:15 Talk 1: Functional Precision Oncology – A Clinical Approach
- 11:15 – 11:45 Talk 2: Science Pitches from the Laboratory of Systems Pathology and Functional Tumor Pathology.
- 11:45 – 12:00 Group photo
- 12:00 - 13:15 Lunch
- 13:15 – 14:30 Lab Tour (two-three groups of 10 - 15 minutes)
- 14:30 – 14:45 Closing words, Chantal & Markus

## REGISTRATION

Register here: <https://events.lsvm.zhaw.ch/en/tedd-university-visit>

Space is limited. Maximum number of participants is 25. TEDD Partners have priority.

The deadline for registration is 31<sup>st</sup> May 2023

## COST

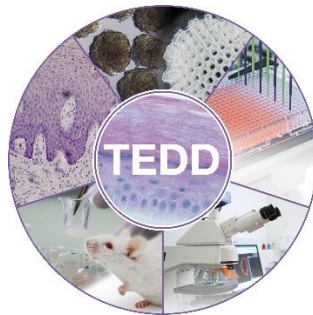
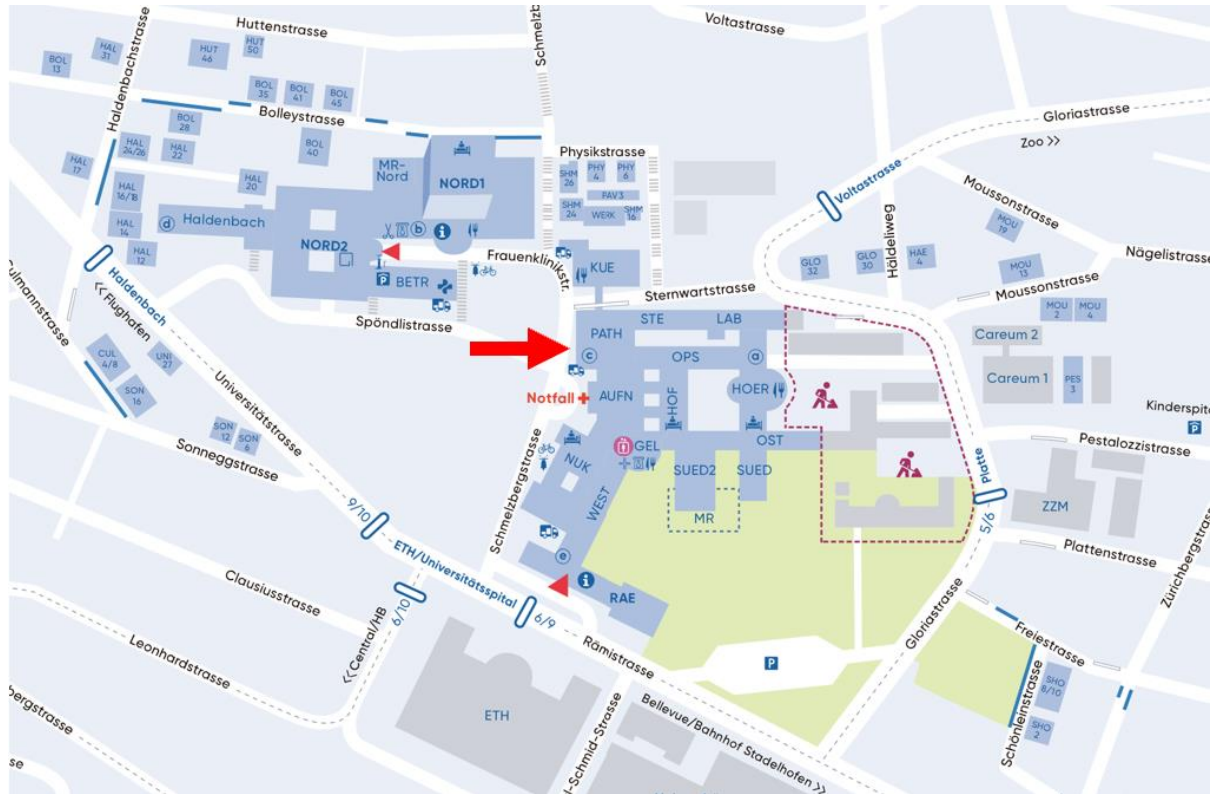
- TEDD Partners (two participants) no entrance fee
- 3rd and next TEDD Partner CHF 40
- Others CHF 80

## LOCATION

Institut für Pathologie und Molekularpathologie

Schmelzbergstrasse 12, 8091 Zürich

Grosser Hörsaal Pathologie Stock D



## ABOUT TEDD COMPETENCE CENTRE

**TEDD (Tissue Engineering for Drug Development and Substance Testing)** is an education, R&D and networking platform promoting the application of 3D organotypic technologies, with the core goal of replacing animal experimentation for therapies development. Based in Switzerland, TEDD is one of its kind in Europe focused on 3D for 3Rs. The community is composed of international members from academia, clinics, industry and non-profits. Training of members is achieved through regular events at the national and international level, including workshops, symposia, company visits, scientific reviews and we provide a platform to generate research consortia, projects and grant applications.

Visit us at: [www.zhaw.ch/icbt/tedd](http://www.zhaw.ch/icbt/tedd)