Cancer is the second most frequent cause of death in Switzerland. With new opportunities for research enabled by precision medicine, a globally unique project aims to provide therapies optimally designed to target each patient’s needs.
allows the medical staff responsible for treatment to offer personalised - and therefore potentially greatly improved - therapy recommendations.

Over 200 cancer patients have already benefited. The long-term goals of the tumour profiler project are: to improve clinical decisions made by pathologists thanks to computer models that integrate the large, multi-layered datasets; and to transform cancer from what is often a fatal disease into a treatable one. Building upon the results gained so far, clinical studies on ovarian cancer and melanoma (black skin cancer) are also planned.

Top expertise in action

Bernd Bodenmiller, Professor of Quantitative Biomedicine at ETH Zurich, is leading the entire project in collaboration with Viola Heinzelmann-Schwarz, Head of Gynaecological Oncology at the University Hospital Basel, and Andreas Wicki, Professor of Oncology at the University of Zurich and Head of Oncology at the University Hospital Zurich. In total, more than 60 experts from the fields of oncology, pathology, dermatology, molecular systems biology, biomedical informatics, quantitative and computational biology, genomics, proteomics and translational medicine are working together to give cancer research a new boost.

The Tumor Profiler Center builds upon ground-breaking technological advances achieved in the last ten years at the component research institutions. The aim is to become a national centre for precision oncology by 2025. The collaboration of institutions with expertise between them ranging from basic research to technology and clinical practice ensures that technological and biological innovations are transferred to clinics more swiftly. Such collaboration provides the ideal background for a project positioned at the interface of medicine and technology and creates excellent conditions for making significant headway in the search for more effective cancer therapies.

Support cancer research

“Our vision for the Bosch Health Campus is to have successfully met the major challenges facing the healthcare system – demographic change, digitalisation, climate change and technical innovations – by the end of the decade. We see ourselves as visible pioneers and role models for the
changes that are needed. And we can only do this in collaboration with partners, which is why we want to work with the best - such as ETH Zurich!”

Dr Ingrid Wünning Tschol
Director Robert Bosch Centre for Innovative Health and Senior Vice President Health Bosch Health Campus, Stuttgart; Member of the Board of Trustees of ETH Foundation Germany

https://ethz-foundation.ch/en/spotlight/uplift_nr10_cancer-research/