



## Open positions for prospective PhD students in IRB Bellinzona (Switzerland)

### Mechanisms of DNA break repair in an ERC-funded laboratory

The Cejka laboratory is looking for one or two PhD students to work on mechanisms of DNA double strand break repair. Specifically, we are interested in "DNA end resection", which is a process that initiates DNA double-strand break repair by homologous recombination. We will investigate the molecular mechanisms and regulation of this process. The selected individual will use a combination of in vitro (biochemistry) and in vivo techniques (genetics and cell biology), using either the model organism *S. cerevisiae* or the human system. DNA double-strand breaks are induced in cancer therapy (radio- as well as selected chemotherapeutics) and the detailed understanding of the underlying mechanisms is therefore relevant for human health. The research performed in the laboratory will however be basic in nature. The project will be long-term funded by the ERC consolidator grant. The research from our laboratory has been published in top journals including Nature, Molecular Cell, Genes and Development, EMBO J, Elife, PNAS and others. More information about our interests can be found: <http://www.irb.usi.ch/petr-cejka>

The research will be carried out at the Institute for Biomedical Research (<http://www.irb.usi.ch/>), which is internationally recognized as a center of excellence in biomedical research and human immunology. The PhD students will be part of a PhD program at ETH Zurich. The PhD salary is determined by the Swiss National Science Foundation scales and is fully sufficient to cover living expenses.

Interested candidates are kindly requested to send a single Pdf file containing a cover letter (1 page), CV (1 page), summary of previous research (1 page), transcripts of university grades as well as to arrange for two reference letters to be sent to: [petr.cejka@irb.usi.ch](mailto:petr.cejka@irb.usi.ch)

The Start date will be ASAP upon mutual agreement.