

Postdoctoral position in the Computational Structural Biology laboratory (Andrea Cavalli)



About IRB

The Institute for Research in Biomedicine (IRB, Bellinzona, Switzerland, www.irb.usi.ch) is a leading center for basic and translational research in immunology. IRB offers competitive salaries and working conditions at all levels in a dynamic, multicultural environment, and is an equal opportunity employer.

IRB is located in the town of Bellinzona in Ticino, Switzerland, offering exceptional quality of life and exciting recreational activities, including hiking, climbing and swimming, as well as cultural activities. It is within close proximity of Locarno, Lugano and the Italian cities of Como and Milano. Although located in the Italian part of Switzerland, English is the main working language.

Artificial Intelligence applied to antibody discovery

The Computational Structural Biology laboratory at IRB Bellinzona, led by Andrea Cavalli, is looking for a dedicated and highly motivated postdoctoral researcher to work on the development and application of artificial intelligence (AI) to the study of immune response. The position offers a unique opportunity to engage in cutting-edge research applying large language models (LLMs) for antibody discovery.

Funding and Duration

The project is funded by a Sinergia grant from the Swiss National Science Foundation (SNSF) and will be carried out in a laboratory affiliated to the Swiss Institute of Bioinformatics (SIB). Preferred starting date is 6/2024. The position is for 36 months.

Qualifications

Our international team will welcome candidates:

- with a PhD in Computational Sciences, Computational Biology or related fields,
- with expertise in development and application of novel AI based methods, such as large language models (LLM),
- with strong programming skills (Python),
- with experience in structural biology.

We offer

- an inspiring and dynamic research environment, including state-of-the art research facilities,
- a vibrant and international scientific community,
- regular active attendance of national and international scientific meetings,
- position is for a fixed term of 3 years, but with possible long-term prospects.

Interested candidates are kindly requested to send an application containing a cover letter (1 page), CV (1 page), summary of previous research (1 page), and the contact information of two professional references to: andrea.cavalli@irb.usi.ch.