



## Two post-doctoral positions in the Lanzavecchia laboratory at the Institute for Research in Biomedicine (IRB) on Antibody engineering and Antibody repertoire analysis

**Context and environment:** The IRB is located in Bellinzona, in the Southern part of Switzerland, is equipped with state-of-the-art facilities and offers an international and attractive working environment. The Lanzavecchia laboratory studies the human antibody response to pathogens. They isolate potent and broadly neutralizing antibodies to gain insight into host-pathogen interaction and to develop new vaccines and antibody-based therapies<sup>1</sup>. These studies led also to the surprising discovery of a new mechanism of antibody diversification through templated DNA insertions into antibody genes<sup>2</sup>.

1. Tan, J. et al. A public antibody lineage that potently inhibits malaria infection through dual binding to the circumsporozoite protein. *Nat Med* 24, 401–407 (2018).

2. Pieper, K. et al. Public antibodies to malaria antigens generated by two LAIR1 insertion modalities. *Nature* 548, 597–601 (2017).

<https://www.irb.usi.ch/antonio-lanzavecchia>

**Candidate profile:** We are looking for qualified, intellectually curious and highly motivated candidates holding a Ph.D. in biology, preferably in immunology, cell biology, molecular biology or bioinformatics. Strong organizational and communication skills and independence are essential. The successful candidate is expected to actively contribute to the dynamics of the group through collaboration and innovation. Working language is English. Salaries are in line with SNSF guidelines.

**Application:** Opened from October 2018 until filled. Please send CV, motivation letter and contact details of at least two persons able to provide references to [info@irb.usi.ch](mailto:info@irb.usi.ch)