

## **Post-doc position- vaccine response in immunocompromised patients**

In order to strengthen its team, the Center for Vaccinology/ Department of Pathology and Immunology, is looking for a dynamic and full-time

### **Post-doctoral fellow**

in the laboratory of Prof. A. Didierlaurent.

Professor A. Didierlaurent is part of the Center of Vaccinology led by the Professor Claire-Anne Siegrist's research group, hosted at the University Medical Center, close to the University Hospital (HUG). This team has a solid world-renowned track-record in fundamental vaccine immunology research and clinical studies.

The postdoctoral fellow will be involved in translational immunology programs focused on the understanding of vaccine immune responses in the immuno-compromised patients. The response to vaccines in these patients is usually reduced and/or altered as compared to healthy individuals, but the exact mechanisms by which their immune status or medications influence the quality of the immune response (innate or antigen-specific) remains ill defined. Understanding those mechanisms would allow the design of improved and more targeted vaccination strategies.

The project will mainly consist of in-depth analysis of vaccine response in vaccinated individuals, with a focus on understanding how the potential alteration in innate immune response impacts on the magnitude and quality of the vaccine response. The postdoctoral fellow is expected to establish in vitro and ex-vivo immune read-outs, such as antigen-specific T and B cell assays (including single cell analysis and functional read-outs), innate cell phenotyping and activation, as well as gene profiling (in whole blood or isolated cells). The candidate will work closely with clinicians and is also expected to significantly contribute to trial design. The University of Geneva offers access to cutting-edge technical platforms, including flow cytometry and genomics. Data analysis support will be provided by a bio-informatician present in the laboratory.

### **Requested profile**

Applicants should hold a PhD in immunology or related field (e.g. innate immunity, vaccinology) and should have a solid research background in human immunology. Technical expertise with flow cytometry (e.g. setting up of complex marker panels), primary human cell culture and immune monitoring is expected. Additional experience in innate immunity as well as system biology approaches, including multidimensional data integration would be an advantage.

**Starting date:** June 1<sup>st</sup>, 2020 or date to be agreed upon. The position is funded for 3 years.

**Contact:** For any further information, please contact [Arnaud.Didierlaurent@unige.ch](mailto:Arnaud.Didierlaurent@unige.ch).

### **Further information**

Institution: University of Geneva, faculty of medicine

Position: Post-doctoral employee, starting salary from CHF 81'347 to CHF 92'832 depending on experience.

Place of work: CMU (Centre médical universitaire) – Rue Michel-Servet 1, 1206 Geneva, Switzerland- Center of Vaccinology-Laboratory of Pathology and Immunology | PATIM