Abstract of the project: In this project, we will study the HLA-viral antigen interaction influencing the polarization of CD4 T cells after SARC-CoV-2 infection. We will study the molecular pathways involved and explore the role of regulatory T cells in the modulation of this immune response. In addition, we will determine the polarization of T cells in diabetic patients, which is one of the risk factors for severe COVID-19. The project Covimune has received funding from the French National Funding Agency ANR.

Main activities

- Bridging and managing the research activities at two sites: Pasteur Institute and Centre de Recherche des Cordeliers
- Handling SARS-CoV-2 and associated viruses
- Cell isolation from human blood, Primary Cell culture
- Use of techniques such as flow cytometry, ELISA, RT-qPCR
- Reporting the data, preparation of project reports, writing the articles
- Connection between project partners

Associated activities

- Mastering the biology techniques of the experimental field
- Write technical procedures
- Control the storage conditions of biological samples
- Planning the experiments, ordering the materials
- Work in a confined environment or in a protected area
- Interaction with team members

Experience required

- Human immunology and virology
- Flow cytometry, ELISA, Western Blot, RT-qPCR
- Bioinformatics (not mandatory but useful)

Opening is immediate. Contract and reporting will be at Pasteur Institute but candidate will have to manage work at both Pasteur Institute (Anavaj Sakuntabhai’s laboratory) and Centre de Recherche des Cordeliers (Jagadeesh Bayry’s laboratory)

Salary: Gross salary up to 56,000 € according to experience. Candidates with less than 4 years post-PhD experience are solicited.

To apply, please send CV and covering letter to the following addresses:
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Anavaj SAKUNTABHAI (anavaj.sakuntabhai@pasteur.fr)