

Job description :

Title of the structure : Immunoconcept Laboratory

Name and surname of the person in charge of the structure: Julie Déchanet Merville

Immediate supervisor (if different from the head of the structure) : Hannah Kaminski

Geographical location of the position (full address):

UMR 5164 (CNRS/UB) IMMUNOCONCEPT Laboratory

UNIVERSITY OF BORDEAUX

Carreire site, North zone, Building 1B

146 Rue Léo Saignat

33076 Bordeaux Cedex

Contact person for any information: Hannah Kaminski ; hkaminski@immuconcept.org

Job title: Study engineer in human immunology and immune response analysis techniques

BAP: Life Science

Job type: Biology engineer

Vacancy date: 01/11/2022 (5-year fixed-term contract)

Quota of working time: 100%.

Recruitment level (cat. A, B or C) : A

Proposed gross salary: 3300 euros per month

Main mission(s) or project(s) to be accomplished :

- To develop and use innovative techniques necessary for the characterisation of immune response in humans.
- To ensure the technological watch necessary for the progress of the project
- Assist in the writing of original articles and reviews produced in the framework of the project.
- Train students in the techniques used
- Present results at team meetings

Key activities:

- Develops, experiments and implements innovative techniques for the functional and molecular analysis of immune cells in humans (based on flow cytometry, measurement of gene expression by PCR, tissue labelling, mouse experiments, biochemical techniques such as Westernblot immunoprecipitation ELISA)
- Plans the research process in agreement with the scientific sponsors
- Evaluates the costs of all kinds required to carry out the research
- Defines and implements the logistics and requirements necessary for the application of new technologies in the research protocols
- Ensures the quality and reliability of the results and takes the necessary steps in case of problems
- Assists and supervises staff in the performance of techniques
- Supervises the ordering of reagents and consumables for the team
- Involved in the life and common tasks of the unit

Related activities:

- Discusses procedures with project investigators and technical staff involved
- Ensures that experiments are conducted according to the established protocol
- Provide the necessary analysis to propose solutions
- Present research results in an appropriate form (oral presentations and reports)

Work environment and context, particular constraints linked to the position :

- The research engineer will be recruited with 100% time on HORUS.

He/she will also work closely with the scientific team of the project (including the scientific leader of the laboratory as well as researchers, teacher-researchers associated with HORUS and PhD or post-doctoral students depending on the common projects linked to HORUS) and the administrative team of the laboratory (Administrative and management manager).

- He/she will work with biological samples from patients (tissues or PBMC) potentially infected with CMV and from mice infected with CMV

Presentation of the project :

The HORUS project (Horizon Europe funding - health cluster, destination "Tackling diseases") aims to improve our understanding of the "host-virus" relationship between cytomegalovirus (CMV) and solid organ transplant recipients to discover signatures integrating viral, clinical and immunological characteristics associated with CMV control. The ultimate goal is to decrease the incidence of CMV, better manage difficult-to-treat infections, avoid the use of unnecessary antiviral therapies, and discover new molecules that can specifically target the CMV immune response without increasing the risk of acute rejection. This project will address three unresolved questions:

1. How to identify host-virus interactions that impact on the incidence of CMV infection after solid organ transplantation?
2. How to identify the host-virus interaction associated with effective control of CMV infection?
3. How to improve the prevention and management of CMV infection using immunomodulatory regimens that enhance the immune response to CMV?

The 5-year project has 16 partners from 7 European countries: France, Belgium, Germany, Czech Republic, Spain, Italy and Switzerland. The consortium includes academics, companies, hospitals and technology transfer centres.

On-call duty: no

Requested profile

▪ Skills required:

Degree or level of qualification

Engineer in biology, master 2, master 2 pro

Knowledge :

- Solid knowledge in immunology
- Solid training in cellular and molecular biology, immunolabelling techniques, and biochemical analysis techniques
- Good English level
- Knowledge of molecular analysis techniques of the cell (Western Blot, chromatography, electrophoresis, DNA purification and extraction, PCR, cell culture, cytometry, transfection), tissue labelling, mouse work
- Work in a biosafety laboratory
- good level of using software as Prism, Flowjo and Excel
- Ability to work in a team
- Organisational skills
- Experience in managing staff
- Experience of the health and clinical research environment
- Ability to analyse and summarise
- Rigour, good interpersonal skills and discretion (confidentiality)
- Ability to adapt to different working methods and techniques

If applicable, experience required :

3 to 5 years experience in a research laboratory

Contacts for job interviews

Hannah Kaminski
Julie Déchanet-Merville
Myriam Capone
Vincent Pitard
Victor Appay