

## POST-DOCTORAL POSITION in Immunology- Oncology

### INSERM UMR1098 RIGHT - Graft/Tumor-Host Interaction - of Besançon

**Context:** The RIGHT Unit is located at the Health campus of Besançon (University of health science, University Hospital, French blood bank, companies such as Diaclone or RD biotec). It is composed of around 150 people organized into 2 teams: the Autoimmunity, Transplantation and Inflammation (ATI) team and the Immuno-Molecular Cancer Therapeutics (TIM-C) team.

#### DESCRIPTION OF THE POST-DOCTORAL POSITION:

##### **Job description summary: Post-doctoral in Immunology and Oncology**

The Immuno-Molecular Cancer Therapeutics (TIM-C) team of INSERM UMR1098 RIGHT Unit is looking for a Post-Doctoral fellow. Prof. Olivier ADOTEVI who joined the team in 2010 and focused is research on tumor specific CD4 T cell immunity leads the TIM-C team. The team is interested in the immunology of cancer and develops immunotherapy approaches based on T lymphocytes. The team has a strong relationship with clinicians and is able to translate its research to clinical applications (T or NK cell-based therapies, tumor vaccination).

##### **Description of Project:**

The post-doctoral fellow will contribute to the project: "**Development of transgenic TCR (tTCR) and CAR-T cells in solid tumors and leukemia**"

##### **Missions:**

- Design and optimize constructions of third generation CAR-T cells and tTCR cells directed against antigens expressed on leukemia cells or solid tumors.
- Implement analytical methods to characterize transgenic CAR-T and tTCR cells
- Determine and improve the efficiency and safety of genetically modified T cells in *in-vitro* models ( spheroid models, organoids, ...) and in preclinical *in-vivo* models (xenografts, PDX, etc)

**Key-words : CAR-T / transgenic TCR / Tumors / T cells**

##### **Publications:**

Anna F, Bole-Richard E, LeMaoult J, et al. [First immunotherapeutic CAR-T cells against the immune checkpoint protein HLA-G](#). J Immunother Cancer. 2021

Bôle-Richard E, Fredon M, Biichlé S, et al. [CD28/4-1BB CD123 CAR T cells in blastic plasmacytoid dendritic cell neoplasm](#). Leukemia. 2020

Warda W, Larosa F, Neto Da Rocha M, et al. [CML Hematopoietic Stem Cells Expressing IL1RAP Can Be Targeted by Chimeric Antigen Receptor-Engineered T Cells](#). Cancer Res. 2019

Mercier-Letondal et al. [Isolation and Characterization of an HLA-DRB1\\*04-Restricted HPV16-E7 T Cell Receptor for Cancer Immunotherapy](#). Human Gene Therapy 2028.

Adotevi O, Godet Y, Galaine J, et al. [In situ delivery of allogeneic natural killer cell \(NK\) combined with Cetuximab in liver metastases of gastrointestinal carcinoma: A phase I clinical trial](#). Oncoimmunology. 2018

**Profile :**

The candidate should hold a PhD degree in immunology with an important experience in cellular immunology. Experience in transduction and/or molecular biology would be strongly appreciated. Ability to communicate with the team and the supervisor as well as to release data on time and under appropriate formats is requested. The position is available for a young scientist motivated by projects in tumor immunology at the interface between basic and applied research.

**The position requires the following skills:**

- Basic immunological techniques: T cell culture, flow cytometry, ELISpot ...
- Gene transfer (transduction, transfection, electroporation)
- Molecular biology (PCR, q-PCR, Nanostring, RNA-Seq is a plus)
- Animal experimentation required
- Additional knowledge and skills in bioinformatics will be welcome

**Solid bases in written and oral english communication are necessary, french is a plus.**

**General Information :**

Open positions: postdoctoral  
Duration: 1 year with possibility for 2 years extension  
Location: INSERM UMR1098 RIGHT in Besançon  
Remuneration : according to experience  
Level of education required: PhD  
Experience : 0-4 years  
Application: available immediately

**MODALITY:**

Date posted : **From september 2021**

Please send your CV, motivation letter, and publication list to [justine.clerc@efs.sante.fr](mailto:justine.clerc@efs.sante.fr)