



université  
de BORDEAUX

## POSTDOCTORAL POSITION IN IMMUNOLOGY

We are currently inviting applications from enthusiastic postdoctoral candidates to join our team to study how the immune system controls tumor development, at the **CNRS 5164 – IMMUNOCONCEPT research unit at the University of Bordeaux, France**, under the supervision of **Dr. Sisirak Vanja**. The position is supported by the funding from the Siric BRIO program and is available for a 12-month period starting on September 2020, with the possibility for extension.

**Environment:** Dr. Sisirak initiated his laboratory in the CNRS 5164 – IMMUNOCONCEPT research unit in 2018, which focuses on the study of mechanisms that regulate self-DNA sensing by the immune system in health and disease. The laboratory currently includes 1 assistant professor, 1 postdoc, 3 PhD students and 1 research engineer. The IMMUNOCONCEPT research unit offers a rich scientific environment with 4 major teams (total ~ 50 persons) working on diverse themes such as anti-viral immunity, autoimmunity, inflammation, cancer immunology and philosophy of immunity. <https://www.immuconcept.org/>

**Description of the project:** The goal of the project is to define the impact of aging and microbiota on spontaneous and immunotherapy-induced anti-tumor immune responses. The project is based on the use of *in vivo* transgenic mouse models, multi-color flow cytometry, as well as standard molecular and cellular biology techniques (PCR, qPCR, tissue culture...).

**Requirements:** The candidate must have a PhD in immunology and will be expected to design and execute experiments, analyze results independently, present and discuss results in lab meetings, apply for funding, contribute to writing manuscripts and must speak English and/or French. Experience in animal experimentation (mice) and flow cytometry is highly desirable but not required. Salary is based on experience and is determined by guidelines of the University of Bordeaux (for example: first postdoc immediately finishing PhD ~43K EUR annual).

**To apply:** For further information, please contact Vanja Sisirak by e-mail to [vanja.sisirak@u-bordeaux.fr](mailto:vanja.sisirak@u-bordeaux.fr). Interested applicants should send a CV, letter of motivation, and the contact information for 3 references.

### **Relevant publications of the lab:**

*Plasmacytoid Dendritic Cells and Type I Interferon Promote Extrafollicular B Cell Responses to Extracellular Self-DNA*

Soni C et al, **Immunity**, 2020 May 19;S1074-7613(20)30173-4

*Digestion of Chromatin in Apoptotic Cell Microparticles Prevents Autoimmunity.*

Sisirak V et al, **Cell**, 2016 Jun 30;166(1):88-101

*Genetic evidence for the role of plasmacytoid dendritic cells in systemic lupus erythematosus.*

Sisirak V et al, **J Exp Med**, 2014 Sep 22;211(10):1969-76

*Impaired IFN- $\alpha$  production by plasmacytoid dendritic cells favors Treg expansion that may contribute to breast cancer progression.*

Sisirak V et al, **Cancer Res**, 2012 Oct 15;72(20):5188-97.

