

Post-doctoral research associate/fellow position

A two-year post-doc position is available at NutriNeuro lab in Bordeaux, France (in NutriMind team), starting in September 2021.

Website: <https://www6.bordeaux-aquitaine.inrae.fr/nutrineuro>

We are seeking a highly motivated post-doctoral research associate interested in the development of innovative personalized nutritional solutions to prevent accelerated age-related cognitive decline. This translational project entitled "Silver Brain Food" (SBF) is funded by Bpifrance and aggregates preclinical and clinical research.

<https://www.bordeaux-neurocampus.fr/nutrineuro-partenaire-du-projet-silver-brain-food/>

The candidate will be involved in *ex vivo* approaches of the project, aiming at dissecting *in vitro* the mechanisms of action of specific nutrients on inflammation and neuroprotection. This will be done by focusing on neuronal and microglial cells, using brain cell lines including primary and iPSC-derived cell cultures (human and rodent). Various approaches ranging from transfection, flow cytometry to omics approaches will be applied. In addition, the candidate will set up mouse 3D-brain organoid to increase the complexity of the model and carry out proof of concept studies based on the mechanisms identified in the project. We expect the candidate to be involved in all the aspects of the project, from conducting the research, mentoring students, establishing models, refining the project to writing scientific manuscripts. Strong social abilities are required as the team relies on very active exchanges between the members.

The candidate will benefit from the support of the NutriMind team (actually Neuropsychimmunology and Nutrition team) of the NutriNeuro laboratory in Bordeaux (France). This dynamic team is composed of 7 researchers, 1 professor and 1 assistant professor, 3 technicians and actually 3 post-docs and 5 PhD students. NutriNeuro lab is involved in several national and international research consortium and leading partner of Optinutribrain (international association between NutriNeuro and Laval University in Quebec) and Food4brainhealth (involving 13 partners in France and Canada). Locally, the lab is a member of the Bordeaux Neurocampus, encompassing more than 50 labs dedicated to Neuroscience and 18 platforms, providing an exceptionally rich scientific environment.

<https://www.bordeaux-neurocampus.fr/>

Requirements:

- PhD with a background in cellular neurobiology (2D and 3D cell culture, coculture, neuronal and microglial cell cultures, cell line and primary cell culture).
- Experience in iPSCs and/or organoids would be greatly appreciated.
- Experience in cell transfection, cell sorting and flow cytometry, immunohistochemistry/immunofluorescence, omics' approaches (either lipidomic or proteomic or transcriptomic), single-cell RNAseq experience is a plus.
- Experience in data and transcriptomic analysis.
- Great motivation.
- Good social, team-working and communication skills.
- Excellent verbal and written communication skills in English.

Candidates should send their CV, a cover letter describing experience, goals and reasons for the interest in this position, a list of publications and 2 letters of reference (mail to: veronique.pallet@enscbp.fr ; anne-laure.dinel@inrae.fr ; corinne.joffre@inrae.fr).

Application deadline: July 16th, 2021.