Titre de l'annonce	# Post-doctoral – neurobiology
3 mots clé -	Neurobiology, Neuroimmunology, Metabolisme
Ville	Valbonne
Pays	France
Texte de l'offre	A post-doctoral position to study the central role of the inflammatory chemokine CCL5/CCR5 pathway in obesity and diabetes is available in the team "Genomics & Evolution in Neuro-Endocrinology" (GENE), project coordinated by Dr Carole Rovère in Nahon's team at the Institute of Molecular and Cellular Pharmacology (https://www.ipmc.cnrs.fr). IPMC has all facilities necessary for the current project including expertise on molecular & cellular biology, functional genomics, pharmacology and integrative biology and offers onsite access to platforms for mice phenotyping, stereotactic surgery for AAV injection, imaging and cytometry techniques (MICA imaging platform; https://univ-cotedazur.fr/mica), electrophysiology, lipidomic LC-MS mass spectrometry, functional genomics and sequencing (UCAGenomiX platform and quantitative PCR stations). ## Post-doctoral project presentation: This project is part of a collaborative program funded by Agence Nationale pour la Recherche (ANR) and involves four international teams having complementary skills for the understanding of the cellular and molecular mechanisms that regulate energy balance and glucose homeostasis, offering a combination of expertise in physiology of eating behaviour and glucose homeostasis, neuroinflammation, neuropeptidergic systems, measures of neuron activity from the hypothalamus, cell-specific gene manipulation using chemogenetics. We investigate the role of neuroinflammation in nutritional obesity, as one of the major public health problem of the 21st century, associated with metabolic syndrome, especially type 2 diabetes (T2D). The treatment of obesity is actually rather disappointing mainly due to a lack of understanding of the associated physiopathology. The

project seeks to better understand central mechanisms of feeding behaviour regulation and to decipher the role of central neuroinflammation in this pathology. This may lead to discovery of new means of treatments and care for obesity and metabolic syndromes.
The objective of the post-doctoral project is to investigate, under normal conditions and in the context of obesity and T2D, the role of the inflammatory chemokine CCL5/CCR5 pathway on the hypothalamic neuropeptidergic network involved in the control of feeding behaviour and glucose homeostasis, using pharmacological, genomic, and chemogenetic tools.

Required education/skills:

Highly motivated candidates should have a doctoral degree in Neuroscience/Neurobiology/ Neuroimmunology/Nutrition/Metabolism. Prior experience studying hypothalamic neural circuits in rodent models would be appreciated. Expertise in mouse stereotaxic surgery, neuroanatomy and neuronal imaging is also welcome. The ability to work both independently and cooperatively within a team is essential.

The appointment is for 24 months, but candidates will be encouraged and guided to apply for additional funding opportunities. The position is available from September 2021.

Applicants should send their CV, motivation letter, list of publications and one or two letters of reference to Dr Carole Rovère (rovere@ipmc.cnrs.fr).

Selected publications of the related project:

Cansell C et al. (2020) Glia 69:42-60.
Nuzzaci D et al. (2020) Cell Rep. 30:3067-3078.
Le Thuc O et al. (2017) Front. Endocrinol. 8:1-14.
Le Thuc O et al. (2016) EMBO Rep. 17:1738-1752.
Le Thuc O et al. (2015) Ann. N.Y. Acad. Sci. 1351:127-140.
Conductier G et al. (2013) Nat. Neurosci. 16:845-847.
Dalmas E et al. (2011) Am. J. Clin. Nutr. 94:450-458.

Date de fin de publication :	31/12/2022
Type d'emploi	Post-Doctorat - Post-Doctoral position
Type de contrat	CDD Researcher (ANR)
Date début de fonction	**01/09/2021**
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