

2-year post-doctoral position in cellular and molecular biology / cellular models of neurodegenerative diseases

A 2-year post-doctoral position is available in the team of Dr Céline Galvagnion at the Institute of Chemistry and Biology of Membranes and Nano-objects (CBMN) in Bordeaux, France. Dr Céline Galvagnion is interested in understanding the role of lipids in the initiation and spreading of neurodegenerative diseases, such as Parkinson's and Alzheimer's Diseases (PD and AD), using an interdisciplinary approach including cellular and molecular biology, biophysics and chemistry.

The advertised research project involves studying the interplay between changes in lipid metabolism and the propensity of α -synuclein to form toxic aggregates in different cellular models of PD (e.g. immortalised and patient derived neuronal cells).

Dr Galvagnion's recent work provided a quantitative description of the mechanism by which model membranes can initiate/accelerate the rate of amyloid formation by α -synuclein and the amyloid- β peptide, the proteins involved in PD and AD, respectively [1,2]. In addition, Dr Galvagnion's research rationalised the observed modulation of α -synuclein aggregation by the lipid-to-protein ratio and the chemical properties of lipids, two parameters that can be affected by different risk factors for PD [1,3]. More information on these research activities can be found here:

https://www.researchgate.net/profile/Celine_Galvagnion

<https://orcid.org/0000-0001-9753-3310>

We are looking for a highly motivated and independent post-doctoral fellow with an expertise in cellular and molecular biology and cellular models of neurodegenerative diseases. The post-doctoral researcher is expected to have experience with cell culture, RNAi, protein (Western blotting) and RNA analysis (RT-qPCR), immunocytochemistry and confocal microscopy. An experience with iPSC is an advantage.

This position is available from January 2019.

The potential applicant should send her/his curriculum vitae (with a summary of research experience and a list of publications), a cover letter discussing her/his interest in the position and stating the date when she/he expects to be available, and contact information for two references to: Dr Céline Galvagnion celinegalvagnion@gmail.com

1. Galvagnion C et al, *Nat Chem Biol*, 2015
2. Habchi J*, Chia S*, Galvagnion C* et al, *Nat Chem*, 2018, *equal contribution
3. Galvagnion C et al, *PNAS*, 2016