

Post-doctoral position on Sideroflexins and iron metabolism

We are looking for a post-doctoral researcher to work on the regulation of iron metabolism by Sideroflexins (SFXN). This post-doctoral position is an ANR-funded position in the context of the SiFeMi collaborative project that involves four teams of cell biologists, geneticists and biochemists from the LGBC, I2BC, ICSN and CEA.

Project:

The SiFeMi project aims at better understanding the functions of SFXN mitochondrial carriers in iron metabolism and cell fate. Sideroflexins (SFXN) are still poorly characterized, despite their emerging importance in mitochondrial function and human disease [1,2]. Recent studies suggest a role of the SFXN family in regulating iron homeostasis, but the precise mechanisms whereby SFXN regulate intracellular iron levels are far from being clear. Our objectives are to better understand the role of SFXN in iron homeostasis, as well as their ability to regulate the synthesis of heme and iron-sulfur clusters, two main co-factors of numerous enzymes.

Profile and skills required:

We are looking for a young and highly motivated post-doctoral researcher with a strong interest in cell biology. The applicant should master mammalian cell culture techniques. Strong knowledge on mitochondria, iron metabolism or cell death (especially ferroptosis) is will be a plus. The candidate should show autonomy, be creative and able to work as part of a team.

Location:

The Laboratory of Genetics and Biology of the Cell is located in Montigny-le-Bretonneux (near to Versailles) and offers excellent material conditions to develop the SiFeMi collaborative project. The LGBC lab is a research unit of the Université de Versailles Saint-Quentin-en-Yvelines (UVSQ) / Université Paris-Saclay in partnership with the École Pratique des Hautes Etudes (EPHE) / PSL Research University. The laboratory offers an easy access to core facilities (imaging, cytometry and genomics).

Application:

The position is funded for two years. Applications should be sent to Nathalie Le Floch-Leleu (nathalie.leleu@uvsq.fr) and include a CV, a cover letter describing your past research experience and two reference letters.

1. Tifoun, N.; De las Heras, J.M.; Guillaume, A.; Bouleau, S.; Mignotte, B.; Le Floch, N. Insights into the Roles of the Sideroflexins/SLC56 Family in Iron Homeostasis and Iron-Sulfur Biogenesis. *Biomedicines* **2021**, *9*, 103, doi:10.3390/biomedicines9020103.
2. Tifoun, N.; Bekhouche, M.; De las Heras, J.M.; Guillaume, A.; Bouleau, S.; Guénel, I.; Mignotte, B.; Le Floch, N. A High-Throughput Search for SFXN1 Physical Partners Led to the Identification of ATAD3, HSD10 and TIM50. *Biology* **2022**, *11*, 1298, doi:10.3390/biology11091298.