

PhD positions
ON BIOINFORMATICS FOR EPIGENOMICS
(Brussels, Belgium)
November 2024

Job description

Positions are available for a highly motivated PhD student who wish to join the Laboratory of Cancer Epigenetics headed by Prof. **François Fuks** (ULB-Free University of Brussels, Belgium).

The research goal will be the analysis of transcriptomic and epigenomic changes (e.g. DNA methylation, histone modifications) that arise in cancers. Particularly the analysis of next generation sequencing data concerning novel epigenetic modifications, which our lab recently investigated, will also be one of the main challenging tasks of the candidate (Delatte et al., *Science* 2016, Jeschke et al. *Nat Cancer* 2021, Ma et al. *Mol Cell* 2023...). He/she will also participate in several side projects with high impact factor publication potentials. The host lab is running a Next Generation Sequencing platform and is part of the ULB-Cancer Research Center (U-CRC), providing a high-profile scientific environment. The candidate will join other experienced bioinformaticians working on transcriptomics and epigenomics. **Position is available now but starting date is flexible.**

Profile

The candidate should hold a master in bioinformatics, bio-engineering, biomedical sciences or eventually in engineering or computer sciences and demonstrate proficiency in statistics and programming (e.g. R, python). Experience with sequence data, genome-wide data sets (e.g. ChIP-Seq, RNA-Seq ...) or massive datasets analysis will be assets. The applicant should have good organizational and presenting skills, a taste for interdisciplinary research, and be able to work independently. The interaction with the biologists in the lab will be key for the success of this project and genuine interest for biology and clinical researches is required. A good biological background will be valuable.

How to apply?

- Screening of applications begins immediately and continues until outstanding candidates are selected. (Online interviews are possible for candidates outside Belgium).
- Informal inquiries, a CV (including grades and ranking), a motivation letter and names of at least two referees, should be sent to: rdeplus@ulb.be

Lab website: <http://fukslab.ulb.be/>

Selected publications

- Ma et al., *Mol Cell*, 2023
- Bizet et al., *Epigenetics*, 2022
- Primac et al., *Curr Opin Genet Dev*. 2022
- Penning et al. *Nat Rev Mol Cell Biol*. 2022
- Jeschke et al. *Nat Cancer*. 2021
- De Dieuleveult et al., *Epigenetics*. 2021
- Lan et al., *Nat Comm*. 2020
- Bonvin E. et al., *Cancer Res*. 2019
- Collignon E. et al., *Science Adv*. 2018
- Jeschke J. et al., *J Clin Invest*. 2017
- Van Grembergen O. et al., *Science Adv*. 2016
- Delatte B. et al., *Science* 2016