



ENGINEER IN BIOINFORMATICS FOR EPIGENOMICS (Brussels)

Job description:

A position is available for a highly motivated **engineer in bioinformatics** that wishes to join the Laboratory of Cancer Epigenetics headed by **Prof. François Fuks** (ULB-Cancer Research Center, Brussels). The candidate will use and adapt bioinformatics tools in order to analyze transcriptomic and epigenomic changes (e.g. DNA methylation, histone and RNA modifications) that arise in cancers. Particularly the analysis of a novel epigenetic modification, which our lab recently investigated, **using next generation sequencing data**, will also be one of his/her task (Delatte et al., *Science* 2016). The candidate will experiment the analysis of many different types of very up-to-date high throughput technologies (Infinium, ChIP-Seq, RNA-Seq and the very recent RIP-Seq technology) coming from a wide range of biological data (cancer cell lines, embryonic stem cells, patients tissues, ...).

Working environment:

The host lab is running a Next Generation Sequencing platform: *EPICS* (<http://epics.ulb.be/>) 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, and in particular he/she will work closely with the group of **Dr. Matthieu Defrance at the “Interuniversity Institute of Bioinformatics in Brussels”** (<http://ibsquare.be>).

Profile/Starting date:

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 skills, a taste for interdisciplinary research, excellent scientific writing and presenting skills and be able to work independently. The interaction with the biologists in the lab will be key for this job and genuine interest for biology and clinical researches is required. A good biological background will be valuable. The position is funded for 2 years, with possible extension. Screening of applications begins immediately and continues until an outstanding candidate is selected (**flexible starting date**).

How to apply?

Informal enquiries, a motivation letter, a CV (including grades and ranking for PhD applicant) and names of two referees should be sent to: Martin Bizet (mbizet@ulb.ac.be)

Lab website: <http://www.ulb.ac.be/medecine/fukslab>

Lab NGS platform: <http://epics.ulb.be/>

Selected publications:

- Delatte et al. *Science* 2016
- Boumahdi et al. *Nature* 2014
- Deplus et al. *Cell Rep.* 2014
- Dedeurwaerder*, Defrance* et al. *Briefings in Bioinformatics* 2014
- Delatte et al. *EMBO J.* 2014
- Deplus et al. *EMBO J.* 2013
- Volkmar et al. *EMBO J.* 2012
- Dedeurwaerder et al. *EMBO Mol Med.* 2011
- Dedeurwaerder*, Defrance* et al. *Epigenomics* 2011
- Fuks F. *Nature* 2010
- Villa et al. *Cancer Cell* 2007
- Viré et al. *Nature* 2006