UNIL | Université de Lausanne

NCCR
RNA & Disease

Postdoctoral
position in bioinformatics (80%)
Center for Integrative Genomics (University of Lausanne), Gatfield lab

In our lab at the Center for Integrative Genomics (CIG) of the University of Lausanne, we aim to decipher gene expression regulatory mechanisms that act at the RNA level, combining both experimental and computational approaches. We are now seeking to recruit a bioinformatician (postdoctoral level; 80%) who will take a central role in strengthening the computational side of our projects related to the regulation of translation in mammals. The envisioned project entails the analysis, interpretation and modelling of ribosome profiling data, and in particular a variant of this technique that we have recently developed and that relies on the analysis of "disome footprints" (Arpat et al., Genome Research 2020).

The successful candidate will closely collaborate with experimentalists involved in the project, while also benefitting from computational expertise in- and outside of the group. In particular, the Gatfield lab is part of the *National Centre of Competence in Research RNA & Disease* (http://www.nccr-rna-and-disease.ch), a Swiss research initiative to strengthen and coordinate its activities in the rapidly evolving area of RNA biology and to obtain a leading position in the translation of knowledge from basic research into medically useful applications. The successful candidate will benefit from NCCR networking and training opportunities throughout Switzerland and from contacts to other leading RNA research labs in Lausanne, Zürich, Bern, Basel and Geneva.

The working environment at the CIG combines proximity to experimental labs working in various fields of Genomics and the Life Sciences, and is rich in bioinformatics expertise and resources, such as the Swiss Institute of Bioinformatics (SIB) and the Vital-IT high-performance computing center.

Requirements:

- *Education and experience.* Relevant qualifications and experience in computational biology; in particular experience in HTS data analysis.
- *Knowledge and skills. Biology:* a good understanding and keen interest in biological questions. *Informatics:* Current knowledge of latest software and design standards; ability to define and solve logical problems for technical applications; knowledge of and ability to select, adapt and effectively use a variety of programming methods.
- *Other requirements.* Excellent communication (English) and interpersonal skills.

The initial work contract is for a duration of 1 year and can be renewed thereafter. Part time employment is possible. Starting date is January 1st, 2022 or according to negotiation.

For further information please contact: david.gatfield@unil.ch

To apply, please submit your motivation letter, CV (including degrees and list of scientific publications), and contact details for 2 or more referees via the website: www.unil.ch (add no 18343).