



UNIVERSITÉ DE GENÈVE

FACULTÉ DE MÉDECINE

Département de médecine
génétique et développement

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Job Title

Postdoctoral Scientist in Computational Biology

Description

The university: Founded in 1559 by Jean Calvin, the University of Geneva (UNIGE) is dedicated to thinking, teaching, dialogue and research. With 16'000 students of more than 140 different nationalities, it is Switzerland's second largest university and one of Europe's leading universities. UNIGE domains of excellence in research include life sciences (molecular biology, bio-informatics), physics of elementary particles, and astrophysics. Just like the city of Geneva itself, the university enjoys a strong international reputation, both for the quality of its research (it ranks among the top institutions among the League of European Research Universities) and the excellence of its education.

Hosting labs: The [Murr](#) and [Ruiz i Altaba Laboratories](#), within the department of Genetic Medicine and Development (GEDEV), are seeking a full-time post-doctoral fellow in bioinformatics. The successful candidate will be **co-mentored by Prof. [Emmanouil Dermitzakis](#)** and offered a highly competitive salary.

Scientific interests: The successful candidate will use genomic and epigenomic approaches to:

- 1) Study the role of DNA methylation in transcription regulation in health and disease, with the aim of establishing novel epigenetic approaches for cancer treatment.
- 2) Study the role of DNA methylation in DNA damage response.
- 3) Study cancer stem cell properties under different conditions of stemness signaling pathway alterations.

Start Date

- As soon as possible.

Required Qualifications

- Ph.D. in Biology, Bioinformatics, Computer Science, or a related field.
- Excellent analytical skills and a strong statistical background.
- Strong programming skills: - Languages: *C/C++, Java, Perl, Python*.
- Scientific computing and libraries: *R, Matlab...*
- Environment/OS: Linux, Unix (Shell Script), Windows.
- Research experience in epigenomic data analysis.
- Ability to work independently and as part of a team.
- Very good oral/written communication and interpersonal skills to efficiently interact with the experimental collaborators.
- A strong publication record in peer-reviewed journals.

Responsibilities

- Treating and analyzing large genomic and epigenomic datasets produced by NGS (Illumina): *Bis-Seq, ChIP-Seq, RNA-Seq, DNase-Seq, exome, variant calling...*
- Setting up tools allowing comparison, analysis and visualization of omic data.
- Proposing pre- and post-experimental strategies for optimal data analysis.
- Organizing, managing and updating bioinformatic infrastructures.
- Providing bioinformatic and computational support to various projects.
- Contributing to bioinformatic training of laboratory members.
- When needed, planning and executing molecular and cellular biology experiments.
- Contributing to manuscript writing and publication and international conferences.

Application

- Please forward your application: one pdf including a motivation letter, curriculum vitae and contact information for referees to: rabih.murr@unige.ch and Ariel.RuizAltaba@unige.ch or submit it [HERE](#)
- Deadline for the application: September 30th.