

## Bioinformatics Postdoc Fellowship

A Bioinformatics Postdoc position is available in the *Cancer Genomics and Bioinformatics* Unit of Dr Matteo Cereda at the **Italian Institute for Genomic Medicine (IIGM)** in Turin (IT). The position is in the context of a national Italian multicenter project (SARGEN-ITA) supervised by Prof Franca Fagioli and supported by the “Associazione Italiana Ematologia Oncologia Pediatrica” (AIEOP).

**Research.** The main objective of SARGEN-ITA is identify the molecular underpinnings driving sarcoma onset in young patients. To achieve this goal, our research program will combine genomic, transcriptomic and epigenetic high throughput sequencing approaches (e.g. DNA-, RNA-, ChIP-, ATAC-seq and related methods). Patients will be tracked from the point of diagnosis throughout their treatment with data including longitudinal and multi-tumour site sequencing. The research will include (1) applying bioinformatics approaches with longitudinally sampled genomes to *track cancer progression and therapy response*; (2) *identifying molecular markers* for use in clinical laboratories; (3) developing a system for *linking clinical information, treatment history, cancer genomes and histopathological records* of well-characterised tumours;

**Role.** The post holder will be involved in the analysis and integration of next generation sequencing data of hundreds of sarcoma tumours. He/she will contribute to the development of algorithms to decipher clonal evolution, intra-sample heterogeneity, driver alterations of these tumours. He/She will design of strategies to identify biomarkers of cancer progression/therapy response. He/she will be responsible for linking genomic data with clinical and treatment information of the patients.

**Candidate.** The ideal candidate will have a PhD in computational biology, computer science, engineering, bioinformatics or similar; experience in bioinformatics analyses, especially in the analysis of NGS experiments; analytical and quantitative background and programming skills. Background in cancer genetics is recommended.

**IIGM** is a private research institute located in Turin, IT. The institutional goal is to foster and develop excellence in human genomic research and education, with special reference to genomic variability in multifactorial diseases, as cancer. The institute provides high-level scientific education and access to state-of-the-art research facilities (e.g. Illumina, Oxford Nanopore sequencers).

**Application.** To apply for this position please submit a cover letter describing research experience and motivation, CV and contact information of 2/3 references to: [matteo.cereda@iigm.it](mailto:matteo.cereda@iigm.it)

The position is available immediately. Salary will vary according to experience.