**Two-year postdoc position for a Bioinformatician / Computational biologist / Biostatistician / Research data analyst in multi-OMICS integration**

CEA

Centre National de Recherche en Génomique Humaine

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<http://jacob.cea.fr/drf/ifrancoisjacob/english/Pages/Departments/CNRGH/about-CNRGH.aspx>

The CNRGH is the French national research center which enables a response to scientific questions necessitating high throughput sequencing and genotyping thanks to the development and deployment of innovative integrated technologies. The organization of the CNRGH enables optimization of genetic and genomic research on human diseases by creating indispensable links between cohort constitution (DNA samples), identification of the responsible genes, and study of the transcriptome and epigenome.​​​​

The CNRGH wants to develop multi-OMICS integration from genomic, epigenomic, transcriptomic, metabolomic datasets and clinical data. We are looking for a bioinformatician to develop a multi-OMICS workflow to identify biomarkers and enriched pathways in complex diseases.

**Essential Functions & Responsibilities**

* Processing of multi-OMICS data from sequencing, microarrays and / or mass spectrometry experiments.
* Interrogation of multiple databases and networks to identify enriched networks
* Statistical methods of multi-OMICS integration (machine learning).
* Implementation of a network enrichment workflow.
* Evaluation, selection, management, interrogation of multiple databases.
* Tools for data visualization.
* Identification of new biomarkers and/or pathways enriched in complex diseases.
* Participation in a transversal working group composed of biologists, bioinformaticians and biostatisticians
* Communication and training

**Profile**

* PhD in Bioinformatics, Data analysis, Biostatistics or Computational biology.
* The candidate must be a young researcher of any nationality, trained in France (either with a doctorate obtained in France or having completed at least 3 years higher education in France), and who wishes to come back to France after having completed a PhD or a post doctorate abroad.
* Knowledge in molecular biology
* Excellent knowledge of the management of OMICS datasets
* Experience in processing network databases for multi-OMICS analysis
* Knowledge of statistical methods
* Standard programming languages in bioinformatics such as python, PERL, bash and R
* Familiar with Versioning Systems (Git, svn)
* Fluent in English and/or French
* Excellent written and oral communication skills
* Highly motivated and independent

**Funding**

Annual gross salary charged: €65,000 (<https://www.genopole.fr/Call-for-proposals-Postdoctoral-research-fellowships.html>)

**How to apply**

Applications must be sent by the 5th april 2019 to Florence Mauger ([mauger@cng.fr](mailto:mauger@cng.fr)), Morgane Pierre-Jean ([mpierre@cng.fr](mailto:mpierre@cng.fr))and Edith Le Floch ([lefloch@cng.fr](mailto:lefloch@cng.fr) )and include a CV, research experience and the names and e-mail addresses of three referees.