

# Postdoc position

## Computational Systems Medicine

Institut Pasteur is an internationally leading research institute in the center of Paris. The successful candidate will work in the Systems Biology lab, which develops computational models for understanding and treating complex disease driven by heterogeneous genome-scale and clinical data. The international and interdisciplinary environment is conducive for developing a large spectrum of skills at the interface between data-driven computational biology and biomedical applications.

### HERCULES Systems Medicine

The HERCULES project unites ten research groups and one company from eight different organizations across Europe with expertise in clinical care of ovarian cancer patients, tumour cell biology, systems medicine, drug response modeling, single-cell sequencing methodologies, biological network modeling, and development of diagnostic systems for clinical use.

Bioinformatics, data analysis, and validation of the resulting hypotheses are at the core of this data-driven project.

### The candidate will

- develop a comprehensive understanding of the biological and clinical contexts,
- define the most appropriate statistical data analysis approaches,
- carry out statistical analyses (drug effects, network modeling, etc.),
- collaborate on the design of the planned validations,
- communicate the results in meetings, scientific seminars, conferences, and articles.

The development of innovative data analysis methodology will be encouraged.

We offer a two-year contract with a possibility of extension.

Candidates should send, in PDF format: CV, main publications, and three references with e-mail address and phone number.

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**Institut Pasteur**

<http://pasteur.fr>  
<http://systemsbiology.fr>



<https://tinyurl.com/herculesintro>  
<http://hercules-project.eu>  
<https://herculesovca.blog>

### We expect

- a recent PhD in computational biology, statistics, or bioinformatics,
- good theoretical knowledge in multidimensional data analysis (exploratory data analysis, machine learning),
- practical experience with statistical high-throughput data analysis,
- documented scientific programming experience,
- a strong interest in molecular and cancer biology,
- excellent communication skills, team spirit, and the capacity to work autonomously and deliver results on time.