Post-doctoral - Super-Resolution imaging (M/F)

The hosting structure

The Curie Institute Research Center
The “Institut Curie” is a major player in the research and fight against cancer. It consists of a hospital and a Research Center of more than 1000 employees with a strong international representativeness. The objective of the Curie Institute Research Center is to develop basic research and to use the knowledge produced to improve the diagnosis, prognosis, and therapeutics of cancers as part of the continuum between basic research and innovation serving the patient.

Job description

Laboratory
The Chromatin Dynamics Team (UMR 3664-CNRS), led by Dr G. Almouzni, explores how chromatin organization from its elementary bricks (histone variants and nucleosomes) up to chromosomal landmarks and nuclear architecture functionally contributes and adapts to cell physiology [https://institut-curie.org/team/almouzni](https://institut-curie.org/team/almouzni). We aim to define the molecular interactions between histone chaperones and histone variants and how they act as a regulated flexible network to assemble, maintain or change chromatin states during normal (development, differentiation) and pathological (cancer) changes of cell fate. We combine biological models from cells to tissue with approaches involving biochemistry, omics and imaging.

Missions
The project explores the 3D spatial chromatin organization in cells undergoing changes of fate in cell cycle and differentiation. Chromatin regulators, histone variants and DNA transactions such as replication, transcription and repair will be examined, along with chromosomal loci and landmarks (eu/heterochromatin) from normal to pathological states. Successful candidate will join the SuperES consortium within an international team with post-doctoral researchers, PhDs students supported by experienced staff scientists, in a vibrant scientific community at the Institut Curie in Paris. Access to multidisciplinary approaches, new technologies and advanced training programs, career development and networking opportunities is provided.

Candidate Profile

Training and experience required
Motivated Candidate should be trained in cell biology with expertise in ES cells / 3D cell culture (organoids/embryoids). Know-how of sample preparation and acquisition of Super-Resolution images is valued. Experience in data processing for imaging and physical parameters is a plus.

Skills required
- Language skills: fluent English
- Autonomy, managerial and organizational capacity, ability to work in a team
- Writing skills, communication.

All our opportunities are open to people with disabilities
Contract information

**Type of contract:** Fixed-term contract  
**Starting date:** As soon as possible  
**Duration:** 2 years (renewable contract)  
**Working time:** Full time  
**Remuneration:** According to the current grids  
**Benefits:** Collective catering, reimbursement of transportation fees up to 70%, supplementary health insurance  
**Location of the position:** Paris  
**Reference:** 2023-09-UMR3664-POSTDOCT01

Contact

Please send your CV, letter of motivation and 2 references, to Genevieve.almouzni@curie.fr.

**Publication date:** September 20th, 2023  
**Deadline for application:** October 31st, 2023

*Institut Curie is an inclusive, equal opportunity employer and is dedicated to the highest standards of research integrity.*