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CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Julien Mozziconacci
Supervisor page	https://biophysique.mnhn.fr/fr/annuaire/julien-mozziconacci-9031
Host Institution	Muséum national d'Histoire naturelle (MNHN) https://www.mnhn.fr/en/scientific-research
Research Lab	Structure and Instability of Genomes https://biophysique.mnhn.fr/en
Research Team	Repeated DNA, Chromatin, Evolution https://biophysique.mnhn.fr/en/arche-9044

Project Title

The evolution of multicellularity

Project Description

The emergence of complex multicellular organisms is a defining feature of eukaryotic evolution. This experimental biology project seeks to explore how chromatin structures enable complex gene regulation by studying nucleosome positioning and 3D genome folding in phylogenetically related species of unicellular and multicellular fungi. Through comparative analyses, this research aims to elucidate the link between chromatin organization and the evolution of multicellularity.

Keywords

evolution of multicellularity, chromatin structure and function, nucleosomes

Description of the Host Research Lab

Research in the "Structure and Instability of Genomes" laboratory focuses on nucleic acids, their structures, dynamics and interactions with different cellular partners. Our studies aim to characterize, at the molecular level, the cellular functions associated with nucleic acids, in particular the molecular mechanisms of genomic instability, involved in various pathological and evolutionary processes. As part of these studies, we are developing new genome-selective strategies for the study or artificial control of these functions.

To submit your application, please send an email with the required documents to
msca-pf@sorbonne-universite.fr