

Postdoc in Biochemistry

2 years, starting at the beginning of 2025, with a salary according to the CNRS salary scale

Profile: We are looking for a motivated and independent postdoc candidate with experience in **biochemistry and recombinant protein production**. Experience in **chromatin** reconstitution, **PTMs**, and **electron microscopy** will be an extra asset but is not required.

Research Project: The project will focus on the structural and functional characterization of SUMO and ubiquitin ligases capable of modifying the nucleosome, using modern techniques in biochemistry and structural biology. The project will encompass in-vitro nucleosome reconstitution.

Team: This project will be conducted under the scientific supervision of Marcin Suskiewicz and Ibtissam Talhaoui in a dynamic and welcoming research team called "Protein Post-Translational Modifications and DNA Repair: Structure, Function, and Dynamics" led by Bertrand Castaing and Marcin Suskiewicz. The work will be part of the **ERC Starting Grant** project "SUMOwriteNread" supervised by Marcin Suskiewicz. Please consult some of our publications:

- 1) Mance, L., et al. (2024). Dynamic BTB-domain filaments promote clustering of ZBTB proteins. *Molecular Cell*, 84(13), 2490-2510.
- 2) Suskiewicz, M. J., et al. (2020). HPF1 completes the PARP active site for DNA damage-induced ADP-ribosylation. *Nature*, 579(7800), 598-602.
- 3) Talhaoui, I., et al. (2018). Slx5-Slx8 ubiquitin ligase targets active pools of the Yen1 nuclease to limit crossover formation. *Nature Communications*, 9(1), 5016

Laboratory and City: The Centre de biophysique moléculaire (CBM - UPR4301-CNRS) in Orléans is a modern laboratory where biologists, physicists, and chemists collaborate to study the molecular mechanisms of diseases such as cancer, providing an interactive environment. Orléans is a medium-sized city with an excellent quality of life, located in the Loire Valley and easily accessible from Paris.

Application Process: Candidates should send a CV and a cover letter including at least two referees who can recommend the candidate, and request their PhD supervisor(s) to send a recommendation letter directly to Marcin Suskiewicz (marcin.suskiewicz@cnrs.fr) and Ibtissam Talhaoui (ibtissam.talhaoui@cnrs-orleans.fr).

Application Deadline: 31/12/2024