

Post-doctoral position in Structural Biology Université Paris-Saclay - INRAE

A post-doctoral position in Structural biology is available at the ChemSyBio team (Université Paris-Saclay, INRAE, Micalis) headed by Dr Olivier Berteau & Dr Alhosna Benjdia. The project involves structure determination of novel metalloenzymes by X-ray crystallography in order to understand enzyme mechanism and reactivity. These enzymes generally combine multiple metallic centers to catalyze unprecedented reactions. Recently, we have uncovered unanticipated active-site rearrangements that challenge our current understanding of these metalloenzymes (Fyfe et al., *Nature* 2022). We aim at using state-of the art structural and spectroscopic techniques to unravel the unique catalysis of these novel enzymes.

We are seeking for a highly motivated post-doctoral fellow with a proven experience in X-ray crystallography. The candidate should have a PhD in structural biology with a good knowledge of protein expression/purification, crystallization and crystallography software. Our research institute provides a vibrant and international environment for researchers interested in interdisciplinary research with access to state-of the art analytical and synchrotron radiation facilities. A knowledge of Cryo-EM would be an asset for the project.

Selected publications from our team include:

- Fyfe et al., *Nature* 2022, 602(7896):336-342.
- Soualmia et al., *Chemistry* 2022, 28(31):e202200627
- Parent et al., 2018 *J Am Chem Soc.* ; 140(7):2469-2477
- Benjdia et al., 2017 *Nature Chemistry* ; 9(7):698-707
- Parent et al., 2016 *J Am Chem Soc.*; 138(48):15515-15518

Our laboratory ([Micalis institute](#)) is located near Paris. The position is offered for one-year, renewable up to 3 years. The salary will be commensurate with experience.

Applications (including CV, description of your research activity indicating your relevant skills and reference letters) should be sent to Dr Olivier Berteau (olivier.bertheau@inrae.fr) and Dr Alhosna Benjdia (alhosna.benjdia@inrae.fr).