

**Post-Doc Position in top-down proteomics for the analysis of intact antibodies
at the Institut Pasteur Paris**

Context and environment: The Institut Pasteur is a non-profit private foundation dedicated to fundamental, interdisciplinary research and to translating scientific knowledge to medicine and public health. Topics of research cover microbiology and infectious diseases, cell biology, immunology, developmental biology and stem cells, neuroscience, genomics, genetics and cancer. The Paris campus houses 130 research units belonging to 11 research departments, employing about 2,600 people. It is recognized worldwide as a leader in infectious disease research.

Host laboratory: The Mass Spectrometry for Biology Lab <https://research.pasteur.fr/en/team/mass-spectrometry-for-biology/> headed by Julia Chamot-Rooke is a mixed Institut Pasteur/CNRS Unit. The main research axes of the Unit are: top-down proteomics and structural proteomics (in particular cross-linking mass spectrometry) with major applications in the field of infectious diseases. It is equipped with five Orbitrap mass spectrometers, including an Orbitrap Eclipse with UVPD and ETD and an Orbitrap HF modified with an Omnitrap and equipped with a FTMS Booster.

Starting date: October 2023

Job type: Post-doc 24 months

Candidate's profile: PhD (or post-doc) in biological mass spectrometry or proteomics. Knowledge in sample preparation, mass spectrometry and in the bioinformatic tools used in proteomics is required. A first practical experience in top-down proteomics and/or Orbitrap MS or in antibody analysis would be a plus. Good communication, interpersonal skills and experience in presenting concepts and data in oral and written formats (English is necessary).

Gross Salary: 36-43 k€ / year depending on the experience of the candidate and including health insurance and paid annual leave

Project. The project aims at developing new methods for the top-down proteomics analysis of intact antibodies. The developments will be undertaken in the framework a project recently funded by the French Research Agency in collaboration with Spectrotech, a small company expert in signal processing and FTMS data analysis.

If you are interested, please send a CV and motivation letter to Julia Chamot-Rooke (julia.chamot-rooke@pasteur.fr).