



The IPBS and CBI (Toulouse, France) recruit New Group leaders

in Microbiology and Infection Biology

Application deadline: May 23, 2021

The Institute of Pharmacology and Structural Biology (IPBS) and the Centre for Integrative Biology (CBI) in Toulouse launch a joint call for the recruitment of new group leaders.

IPBS and CBI are leading research institutes of the French National Centre for Scientific Research (CNRS) and the University of Toulouse, founded in 1996 and 2016, respectively. They are located in Toulouse, southwest France, on the main Campus of the Université Toulouse III-Paul Sabatier, offering multidisciplinary education in the fields of Science, Health, Engineering and Technology, and developing one of the most important scientific research clusters in France.

Both institutes conduct internationally recognized research in microbiology and infection biology. The CBI addresses fundamental questions on complex biological systems using a wide variety of models from bacteria to animal populations. It conducts research on the molecular and cellular biology of microbes, including bacteria, archaea, unicellular eukaryotes and their viruses, through integrative analysis of key and fundamental aspects of these microorganisms: genome maintenance, plasticity and evolution, gene regulatory networks, RNA, protein trafficking and quality control, and organelle biogenesis. **The IPBS focuses on the discovery, characterization, validation and exploitation of novel pathways and pharmacological targets in the fields of infectious diseases, inflammation and cancer** through the use of innovative molecular and cellular biology approaches, *in vivo* functional exploration and state-of-the-art research in structural biology, proteomics and biophysics.

The two institutes bring together more than 650 scientists and supporting staff, including more than 100 national and international postdoctoral fellows and PhD students, in 56 research groups. They offer an outstanding scientific and stimulating research environment and several cutting-edge core facilities including mass spectrometry, macromolecular crystallography, cryo electron microscopy/tomography, liquid- and solid-state NMR, biophysical characterization of proteins and their complexes, virtual screening for drug

discovery, single particle tracking and tethered particle motion analysis, whole body, tissue and cellular imaging, flow cytometry and cell sorting in standard or BSL3 laboratories and animal facilities (housing bees, *Drosophila*, zebrafish, *Xenopus* and mice), together with a computer cluster for large data analysis and simulation.

In order to reinforce their research endeavors in an inspiring and collaborative environment, the IPBS and the CBI are seeking talented group leaders addressing fundamental questions, with priority on:

- **Infection biology:** Biology of bacterial pathogens, with a particular yet non-exclusive focus on respiratory pathogens, addressing the mechanisms underlying virulence and host-pathogen interactions, persistence, drug resistance or tolerance within the host.
- **Integrative microbiology:** Studies based on genome-wide/omics screens, high-resolution cell imaging, structure determination by X-ray, NMR, cryo-electron microscopy/tomography and other innovative approaches, addressing fundamental questions in molecular and cellular microbiology.
- **Quantitative and computational biology of microbes:** Systems biology applied to the physiology of bacteria, archaea, unicellular eukaryotes and their viruses.

Outstanding candidates, of any nationality at an early-career stage, are expected to develop competitive, independent research and meet the required criteria for successful application to national and international funding, including ATIP-Avenir, FRM, ANR "Jeunes chercheurs - Jeunes chercheuses", ERC-StG or CoG, or equivalent installation grant, and to a tenured position at CNRS. Senior researchers holding a CNRS or University position are also welcome to apply.

Starting package: Successful candidates will be provided with a starting package including office and lab space for 5-10 people, staff support, seed funding, mentoring to obtain a tenured position at CNRS and free access to on-site technological facilities.

Applications (about 10 pages, in English) should be sent **before May 23, 2021** as a single file named LASTNAME_MIC2021.pdf to mic.call2021@ipbs.fr and should include (i) a cover letter, (ii) a CV, (iii) three reference letters, (iv) a summary of achievements and (v) future research interests (2 pages).

Tentative calendar

June: Preselection of candidates; **July:** Interview of preselected candidates by the selection committee; **End-July:** Outcome of the selection process. **From September:** Application for grants and CNRS tenured position

