

Post doctoral position in the team “The Immune detection and elimination of pathogens”

Immune cells, as macrophages, are crucial effectors at setting up an immune and microbicidal response during infections. To do so, they express a wide range of immune receptors, the PRRs, at the membrane bound level and in the cytosol. While most of the PRRs trigger a transcriptional program that will modify the cell response, a subgroup of these receptors, those forming the inflammasomes, promotes a caspase-1/-11 dependent proteolytic cascade that ends by the pro-inflammatory cell death, pyroptosis, and the release of the pro-inflammatory cytokines, IL-1b and IL-18. While the steps triggered by Caspases that lead to cell death are getting more and more clear, how the bacterial ligands that are recognized by the cytosolic receptors reach the cytosol is less understood. Hence, the newly formed team aims at understanding the molecular mechanisms that link cell-autonomous immunity to innate immune detection of pathogens, with a strong focus on cytosolic receptors, such as those forming inflammasomes.

The successful candidate should have a strong background in immunology, molecular biology, microbiology or cell biology is an advantage and have defended his/her PhD thesis no more than 2 years ago.

The position is granted for two years by a FRM (Fondation pour la Recherche Medicale) grant with a possibility of two more years' extension. Salary, according to French salary grids is around 2'300 euros/month once taxes and health insurance removed.

The IPBS is a leading research center of the CNRS and the University of Toulouse, dedicated to academic research in the fields of cancer and infectious diseases biology, structural biology and biophysics, with a strong focus on the discovery, characterization and validation of novel important pathways and molecular targets in the fields of cancer and tuberculosis (<http://www.ipbs.fr>).

The University of Toulouse and the Institute value diversity and is committed to equality of opportunity. The Institute has a responsibility to ensure that all employees are eligible to live and work in France. Toulouse is at the heart of the South-West Region of France, with a very large and dynamic community of students and scientists, several international-level research and clinical centers, and has been ranked among the first cities in France for its quality of life.

Please email a cover letter plus your CV (including a publication list), two reference letters from 2 referees to: Etienne Meunier ([Etienne.meunier@ipbs.fr](mailto:Etienne.meunier@ipbs.fr)).

Beginning from January to March 2017