



**INSTITUT  
PASTEUR**

Molecular Mycology Unit

## **POSTDOCTORAL POSITION**

An ANR funded postdoctoral position is available at Institut Pasteur Paris, in the Molecular Mycology Unit (Mycology Department). The funding is for 34-months, and the fellowship can be started right-away. The project is focused on exploring fungal cell-wall polysaccharides for immunotherapies, exploiting *Aspergillus fumigatus*, a ubiquitous and airborne opportunistic fungal pathogen as the model organism. In brief, invasive fungal infections (IFIs) are associated with high mortality rate. Despite antifungal drug treatment, the prognosis of IFIs is poor due to inadequate efficacy of the drugs, variable drug- susceptibility across fungal species due to their complex biological cycle and the emergence of drug-resistant strains. This demands new/alternative therapeutic strategies. On the other hand, cell wall is the fungal first component to interact with the host immune system. However, polysaccharides, the main constituents of the fungal cell wall are under-explored in the context of immunotherapy. This is due to several drawbacks associated with the fungal cell wall polysaccharides. Our project aims at overcoming those drawbacks of cell wall polysaccharides and making them useful in immunotherapies against fungal pathogens.

### **The candidate:**

PhD in the field related to mycology (or microbiology). Expertise in glycobiology techniques (different chromatography), primary cell culture work (macrophages and neutrophils, microscopy, flow-cytometry), animal handling, computational biology and good writing skill are desirable.

### **To contact:**

Interested candidates can contact **V. AIMANIANDA** ([vkumar@pasteur.fr](mailto:vkumar@pasteur.fr)) or **T. Fontaine** ([thierry.fontaine@pasteur.fr](mailto:thierry.fontaine@pasteur.fr)) with curriculum vitae, brief description of research accomplishments so far, the list of publications (indicating published and in preparation articles separately, with your name in bold and the name of your mentor/supervisor underlined) and the names of three references.

### **Link to our research activities:**

<https://research.pasteur.fr/en/member/vishu-kumar-aimanianda-bopaiah/>

<https://research.pasteur.fr/en/member/thierry-fontaine/>