

Junior postdoctoral research position Antiviral Immunity – Metabolic reprogramming

Job posted : 16/10/2019 - **Closing date for applications :** 27/12/2019

Location : Research Center for Respiratory Diseases (« CEPR »), INSERM, UMR1100, Faculty of medicine, Tours, France - **Team :** « *Respiratory infection & Immunity* ».

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POSITION SUMMARY

A postdoctoral fellowship is available in the Research Center for Respiratory Diseases (french acronym « CEPR »), as part of a research programme on antiviral signaling and metabolic reprogramming in lung mucosa infected by the influenza virus. This position is available for two years.

We are seeking a highly motivated junior postdoctoral researcher with demonstrated achievement in virology and/or antiviral immunity projects. Expertise in cell signaling will be also an advantage. The successful applicant will have the opportunity to work with scientists (Inserm researchers, lecturers) and clinicians (intensivists and pulmonologists) and with collaborating laboratories in France, Canada and Hong-Kong. The project will involve a wide range of immunology, imaging, biochemistry and metabolomic approaches as well as mouse models.

The Postdoctoral researcher will conduct an innovative programme dealing with the anti-influenza virus properties of new host components.

Influenza A virus (IAV) is the etiological agent of a highly contagious acute respiratory disease, which causes a considerable socioeconomic burden despite annual vaccination campaigns. Therefore, it is essential to better understand IAV-host cells interaction to help design innovative antiviral therapies. Interestingly, recent studies revealed the interplay between metabolic and immune signaling pathways. Thus, using *in vitro* and *in vivo* models as well as human respiratory fluids and in-depth metabolomics analysis, the postdoctoral researcher will investigate alterations of immune and metabolic pathways in lung mucosa. She/he will also focus on specific molecules found not only in the lungs of influenza virus-challenged mice but also in the tracheal fluids of influenza virus-infected patients. Remarkably, these molecules exhibit a potent antiviral activity. Hence, the postdoctoral researcher will also contribute to understand the underlying inhibiting mechanism. Overall, she/he will contribute to characterize novel component(s) of the host antiviral arsenal.

CRITERIA

- A recent PhD qualification.
- Appropriate research experience and publications in virology and/or antiviral immunity as well as cell signaling.
- Appropriate technical competence (*in vitro* and *in vivo*) and accomplishment.
- A capability of working within a project team to achieve results.
- Good communication, organisation and interpersonal skills.

TO APPLY

To apply, please send a CV including a statement of research interests and names of 3 references to: Mustapha Si-Tahar, email: mustapha.si-tahar@inserm.fr
Closing date: December 27th, 2019.