

UMR INSERM1173 Infection et Inflammation  
Université de Versailles St-Quentin-en-Yvelines  
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**Two years post doctoral position in virology and cellular biology in the context of an ATIP AVENIR INSERM contract within U1173**

A 2 years postdoctoral research position is available in the first semester of 2019 to study respiratory syncytial virus multiplication in the virology group at the research unit U1173 (INSERM – Université de Versailles saint Quentin en Yvelines). This young group has just received ATIP AVENIR INSERM funding for this recruitment.

The Unit 1173 is a new research Inserm-UVSQ Unit located in the brand new building of the Faculty of Health Sciences “Simone Veil” belonging to the University Versailles-Saint-Quentin (UVSQ) (just near Paris). The U1173 research focuses on inflammatory cell responses and infections. U1173 results from the reunion of 3 teams : 1) *Neuroendocrine response to sepsis* ; 2) *Inflammatory Response and Immune System*, 3) *Physiopathology and diagnostic of microbial infections*

**Subject area:** virology and cellular biology

**Background:** The respiratory syncytial virus (RSV) is a major and ubiquitous agent of respiratory viral infections in humans. It is responsible for more than 33 million cases/year of bronchiolitis in children leading to more than 3 million hospitalizations. RSV is also associated with a substantial disease burden in adults comparable to *influenza*, with most of the hospitalizations and mortality in the elderly. There is currently no vaccine or effective antiviral marketed. Understanding the replication mechanisms of this virus is essential to allow the development of appropriate preventive and curative strategies.

RSV is a single-stranded negative RNA virus whose multiplication is exclusively cytoplasmic. We have recently demonstrated that viral RNA synthesis steps (viral genome transcription and replication) occur within virally induced cytoplasmic inclusions that can be considered viral plants (Rincheval et al, 2017, Nature Comm).

**Project:** We aim at understanding the organization and functioning of viral factories and to decipher the export mechanisms of new viral cores from viral factories to the sites of virus budding at the plasma membrane. To this end our team has developed an original reverse genetics system and recently obtained the first RSV expressing a viral protein fused to a fluorescent tag (Rameix-Welti,

2014, Nature Comm). These original tools will allow for the first time the study of the dynamics of viral factories and the intracellular trafficking of viral capsids.

**Eligibility:** An achieved doctoral degree is mandatory for a position as post-doctoral fellowship at U1173. The doctoral thesis shall be in a relevant area according to the specific position stated here. The candidate would have experience in standard and specialized laboratory skills including cellular biology and imaging methods. Experience in virology is not mandatory. Manuscript writing and presentations in meetings will be required.

**Assessment:** The ideal candidate would have a PhD in cellular biology/virology with a strong track record of scientific productivity.

Proficiency with advanced imaging methods and/or with intracellular trafficking is a must. Experience within virology is preferred but not essential.

The successful candidate is expected to be highly motivated, capable to plan and execute experiments independently and to actively contribute scientifically to the group. Fluency in English is required. The development of the group in the frame of the ATIP project could lead to further opportunities for a successful candidate.

**Employment:** The employment is full time and temporary, two years, with placement at the UFR des sciences de la Santé, Université Versailles saint-Quentin en Yvelines, 2 av de la source de la Bièvre, 78180 Montigny-le-Bretonneux (just near Paris), France. Annual net salary around 25 keuros.

For further information: Please contact research fellow Marie-Anne Rameix-Welti 33 6 65 13 64 34, marie-anne.rameix-welti@uvsq.fr

**To apply please address to marie-anne.rameix-welti@uvsq.fr**

- A cover letter giving a brief description of previous research experience, and a motivation to why you are applying
- A CV including a list of publications
- Proof of completed PhD
- Contact details of two references