

## Faculté de biologie et de médecine

The laboratory of Prof. Gilbert Greub at the University and University Hospital of Lausanne, Switzerland, offers a:

### Post-doctoral position in Microbiology

The Greub lab's research is focused on the biology of obligate intracellular bacteria, especially Chlamydia-related bacteria. This includes study of bacterial division, interactions with the host cell, intracellular trafficking and many other aspects [1-6]. These bacteria are near relatives of the highly pathogenic *Chlamydia trachomatis* and *Chlamydia pneumoniae* and represent the perfect model in order to investigate the evolution of the pathogenesis of *Chlamydiae*. We could recently implement in our lab genetic tools to study *Chlamydia trachomatis*. However, *Chlamydia*-related bacteria are still genetically intractable and we need a talented researcher in order to develop genetic tools for the study of Chlamydia-related bacteria.

**Your project:** Develop genetic tools that will help to investigate the biology of Chlamydia-related bacteria and participate in projects investigating chlamydial virulence factors and transcription regulation.

**Your profile:** Motivated and proactive researcher holding a PhD degree in molecular biology and/or microbiology, with first author publications in high impact peer-reviewed journals and good communication skills. Technical knowledge on obligate intracellular bacteria or mammalian cell culture is an asset. Priority will be given to people with a strong background in molecular cloning.

**We offer:** You will join a well established research team in a state of the art laboratory in the institute of microbiology at the University of Lausanne with access to excellent research facilities, with a competitive salary.

The position is available starting **1<sup>st</sup> of January 2018**

**Deadline for applications : 5<sup>th</sup> of September 2017**

Please send your CV, publication list, motivation letter and contact details of three referees to Prof. Gilbert Greub: [gilbert.greub@chuv.ch](mailto:gilbert.greub@chuv.ch)

**Laboratory website:** [http://www.chuv.ch/microbiologie/imu\\_home/imu-recherche/imu-research-groups/imu-research-greub.htm](http://www.chuv.ch/microbiologie/imu_home/imu-recherche/imu-research-groups/imu-research-greub.htm)

### References:

1. Croxatto, A. and G. Greub, *Early intracellular trafficking of Waddlia chondrophila in human macrophages*. Microbiology, 2010. **156**(Pt 2): p. 340-55.
2. Bertelli, C., et al., *The Waddlia genome: a window into chlamydial biology*. PLoS One, 2010. **5**(5): p. e10890.
3. Jacquier, N., et al., *Cell wall precursors are required to organize the chlamydial division septum*. Nat Commun, 2014. **5**: p. 3578.
4. Jacquier, N., P.H. Viollier, and G. Greub, *The role of peptidoglycan in chlamydial cell division: towards resolving the chlamydial anomaly*. FEMS Microbiol Rev, 2015. **39**(2): p. 262-75.
5. Croxatto, A., et al., *Early expression of the type III secretion system of Parachlamydia acanthamoebae during a replicative cycle within its natural host cell Acanthamoeba castellanii*. Pathog Dis, 2013. **69**(3): p. 159-75.
6. Bertelli, C., et al., *CRISPR System Acquisition and Evolution of an Obligate Intracellular Chlamydia-Related Bacterium*. Genome Biol Evol, 2016. **8**(8): p. 2376-86.