



Département médecine de laboratoire
et pathologie
Institut Universitaire de microbiologie
Rue du Bugnon 48
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The research group of Prof. Gilbert Greub at the University Hospital of Lausanne, Switzerland, offers :

One PhD and one Postdoctoral Positions in “Dissecting the regulation of chlamydial developmental cycle”

Chlamydiae are obligate intracellular bacteria characterized by a unique biphasic developmental cycle alternating between two morphologically distinct forms, the infectious non-dividing elementary bodies (EBs) and the non-infectious dividing reticulate bodies (RBs). Upon exposure to stressful conditions, chlamydiae can develop into a third form, called aberrant bodies (ABs), a reversible stage associated with persistence. These forms are characterized by specific transcriptional and translational profiles, as well as by different metabolic activities. Transitions between EBs, RBs and ABs are tightly regulated, but the exact mechanisms triggering these transitions remain largely unexplored.

This project aims to investigate these events by using different cell and molecular biology techniques, in order to obtain important clues about the regulatory mechanisms controlling the chlamydial developmental cycle.

Your tasks

- Investigation of the chlamydial developmental cycle by applying different cell and molecular biology techniques such as cell culture, live cell imaging, immunofluorescence, transcriptional analysis, co-immunoprecipitation, use of drugs inhibiting chlamydial growth and/or differentiation
- Presentation of scientific data at group/institute meetings and at national and international conferences
- Supervision of practicals at the Faculty of Biology and Medicine

Your profile

- Proactive, independent and committed personality
- Excellent communication skills
- Master degree, resp. PhD, in biology, biochemistry or related field
- Experience in bacteriology and/or mammalian cell culture is an asset
- Excellent knowledge of written and spoken English
- Experience of Master student/PhD student supervision (for the postdoctoral position)

We offer

You will join a well-established research team with a long-standing expertise in the biology of intracellular bacteria. The laboratory is located at the Institute of Microbiology, with access to state-of-the-art facilities of the University of Lausanne.

Duration of employment: up to 4 years. The salary is in accordance with the Swiss National Science Foundation regulation.

Laboratory website: <https://www.chuv.ch/en/microbiologie/imu-home/research/research-groups/gilbert-greub>

Interested?

We look forward to receiving your application (including a CV with contact information of at least two references, a motivation letter and your university diplomas) to imu.secretariat@chuv.ch. Closing date: **31 December 2022** (or until position is filled). For further information, please contact Dr. Carole Kebbi Beghdadi (Carole.Kebbi-Beghdadi@chuv.ch) or Dr. Nicolas Jacquier (Nicolas.Jacquier@chuv.ch), tel. +41 21 314 85 39. Do not send applications to these email addresses.

Start date: 1st March 2023.