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et pathologie  
Institut Universitaire de microbiologie  
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The research group of Prof. Gilbert Greub at the University Hospital of Lausanne, Switzerland, offers a:

### **PhD Position 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
- Teaching in practicals at the Faculty of Biology and Medicine

#### **Your profile**

- Proactive, independent and committed personality
- Excellent communication skills
- Master degree in biology, biochemistry or related field
- Experience in bacteriology and/or mammalian cell culture is an asset
- Excellent knowledge of written and spoken English

#### **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: 4 years. The salary is in accordance with the Swiss National Science Foundation PhD 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 two references, a motivation letter and your university diplomas) to [imu.secretariat@chuv.ch](mailto:imu.secretariat@chuv.ch). Closing date: **1st March 2023**. For further information, please contact Dr. Carole Kebbi Beghdadi ([Carole.Kebbi-Beghdadi@chuv.ch](mailto:Carole.Kebbi-Beghdadi@chuv.ch)) or Dr. Nicolas Jacquier ([Nicolas.jacquier@chuv.ch](mailto:Nicolas.jacquier@chuv.ch)). Do not send applications to these email addresses.

Start date: As soon as possible.