

The Swiss Tropical and Public Health Institute (Swiss TPH) is a world-leading institute in global health with a particular focus on low- and middle-income countries. Associated with the University of Basel, Swiss TPH combines research, education and services at local, national and international levels. 950 people from 80 nations work at Swiss TPH focusing on infectious and non-communicable diseases, environment, society and health as well as health systems and interventions.

The Medical Parasitology and Infection Biology (MPI) Department at Swiss TPH investigates the molecular and cellular mechanisms underlying pathogen biology and survival, host-pathogen interactions or drug resistance. Further activities include studies on disease transmission, immunity to infection, pathogen population structure and preclinical and clinical studies testing new disease interventions. The **Malaria Gene Regulation Lab** of **Till Voss** studies the malaria parasite *Plasmodium falciparum*, with a focus on understanding the transcriptional and epigenetic control mechanisms regulating antigenic variation and sexual conversion and on exploring the molecular and cellular processes driving gametocyte differentiation, the life cycle stages responsible for malaria transmission. Within the frame of a project funded by the Swiss National Science Foundation (SNSF), we are offering a position for a

## Postdoctoral Researcher (100%)

In this project, we will combine CRISPR/Cas9-based gene engineering, super-resolution microscopy and various –omics techniques to dissect the function of proteins implicated in the earliest phase of gametocyte differentiation. We are looking for a highly motivated candidate interested in joining our small team of students and scientists passionate about applying exploratory basic research to understand the fascinating biology of malaria parasites.

### Your various responsibilities include the:

- Planning, implementation and documentation of a postdoctoral research project
- Analysis, interpretation and visualization of research results
- Coordination of research activities with an external collaborator
- Preparation of manuscripts for publication
- Active participation in lab meetings, internal seminars and international scientific conferences
- Help in supervising MSc and PhD students and lab practicals

### You should have the following experiences and skills:

- Recent PhD degree in molecular life sciences
- Technical and conceptual expertise in molecular biology, cell biology, *in vitro* cell culture and fluorescence microscopy
- Experience in *Plasmodium falciparum* *in vitro* culture, ultrastructure expansion microscopy and/or Illumina Next Generation Sequencing is beneficial but not mandatory
- Able to work independently as well as in a team
- Pro-active, goal-oriented and collaborative work attitude
- Strong analytical and problem-solving skills

- Excellent communication and documentation skills
- Fluency in written and spoken English

## What we offer:

- fully funded postdoc position for 3 years (salary according to SNSF regulations)
- Attractive employment conditions (fringe benefits, 25 working days of paid annual leave, generous bridge day regulation)
- Modern work and learning space in our new building “Belo Horizonte” with state-of-the-art laboratories, offices and seminar rooms and an own canteen
- Interdisciplinary, multicultural and stimulating work environment

Swiss TPH is an equal opportunity employer committed to excellence through diversity.

## Life in Basel:

Quality of life in Switzerland is ranked as one of the highest worldwide. Basel is a very international and livable city located right at the border to Germany and France and the stunning river Rhine, and offers an excellent scientific, recreational and cultural environment. The city is bike-friendly and well connected for local, national and international travel by an excellent public transport network and an international airport just 20 minutes away from downtown Basel and Swiss TPH.

**Please submit your application online via <https://jobs.swisstph.ch/Jobs/All> with:**

- CV
- Motivational letter, including your background and experience and the reasons why you are interested in this project, how your skills and expertise align with the project aims and why you are a strong candidate for this position
- Names and contact information (email or phone) of two references
- Reference letters and diploma

Please note that we can only accept applications via our online recruiting tool. Applications via e-mail or external recruiter will not be considered.

## Job Profile:

Start Date:	1 April 2024 or upon agreement
Location:	Allschwil, Switzerland (located only minutes away from downtown Basel)
Duration:	3 years
Percentage:	100%

## Contact:

For further information regarding this position please contact Till Voss ([till.voss@swisstph.ch](mailto:till.voss@swisstph.ch)).