Masters project

Interactions of the malaria parasite with its host cell

The parasitology unit of the Max Planck Institute for Infection Biology is looking for a masters student .

Focus of the project:

Our group investigates the biology of the malaria parasite (*Plasmodium* spec.). During asexual reproduction in the blood, *Plasmodium* resides in a membrane-bound compartment inside the erythrocyte, termed the 'parasitophorous vacuole'. This compartment is a major interface that is used to extensively manipulate the host cell. The morphological features of the parasitophorous vacuole and its functions in host cell remodeling will be the focus of this project.

Methods:

The project will mainly focus on the blood stage development of the malaria parasite. Since we are working with a rodent malaria model parasite, willingness to perform animal experiments is a prerequisite. Experiments will involve standard methods of molecular biology, experimental genetics, fluorescence microscopy, and flow cytometry.

Requirements:

Candidates should be highly motivated and show an interest in host-pathogen interactions. Experience in molecular biology would be highly appreciated.

Contact:

Please, send your application to Joachim Matz (matz@mpiib-berlin.mpg.de)