



Johannes Postma

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Nationality:

German

Phd student at:

Institute of Microbiology
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Main supervisor:

Prof. Dr. Michael Feldbrügge

Project title:

Applying microfluidics to studying polar growth of infectious hyphae from *Ustilago maydis*

Research focus:

My research focuses on the investigation of the morphological change from sporidia growth to hyphal growth of the fungal pathogen *U. maydis*. In the hyphal stage, the fungus is in its infectious form, which is characterized by unipolar growth. A new approach using microfluidics to study the behavior of infectious hyphae allows the long-term observation of media switches that induce hyphal growth or regulate important functions such as endosomal transport at the single cell level. In my project I will try to establish and utilize this system.

Personal interests & motto:

Being in nature and doing sports such as sailing, cycling or hiking.

Advantages of being a MOI V fellow:

For me, the biggest advantage of being part of MOI V is that we come together from such different backgrounds and can support each other along the way with our different skills and experiences through discussion and exchange. Furthermore, the program also enables us to develop personally through the extensive further training, which is very valuable for us in the current projects and beyond.

MOI V fellow since:

04/2024

