Curriculum Vitae

Personal information

Jan Stephan Wichers-Misterek

Work experience

Paul-Ehrlich Institut

Federal Institute for Vaccines and Biomedicines

Langen, Germany

12/2023 - present

Quality Assessor - Vaccines

Bernhard-Nocht Institute for Tropical Medicine (BNITM)

Hamburg, Germany

01/2022-08/2023

Postdoctoral Researcher – Malaria Cell Biology

Center for Structural Systems Biology (CSSB)

Hamburg, Germany

01/2021-12/2021

Postdoctoral Researcher – Cellular Parasitology

Bernhard-Nocht Institute for Tropical Medicine (BNITM)

Hamburg, Germany

03/2017-12/2020

PhD Student - Molecular Parasitology

Education and training

University of Hamburg

Hamburg, Germany

03/2017 -12/2020

Dr.rer.nat Biology

University of Basel, Swiss Tropical and Public Health Institute (Swiss TPH)

Basel, Switzerland

09/2015-02/2017

Master of Science; Infection Biology

University of Basel

Basel, Switzerland

09/2011-07/2014

Bachelor of Science; Molecular Biology

Additional information

Publications

Andrandi-Brown et al. 2024, A novel computational pipeline for *var* gene expression augments the discovery of changes in the *Plasmodium falciparum* transcriptome during transition from *in vivo* to short-term *in vitro* culture, elife

Schmidt & Wichers-Misterek et al. 2023, The Kelch13 compartment is a hub of highly divergent vesicle trafficking proteins in malaria parasites, PLOS Pathogens

Wichers-Misterek et al. 2023, The exception that proves the rule: Virulence gene expression at the onset of *Plasmodium falciparum* blood stage infections, PLOS Pathogens

Kimmel et al. 2023, Gene-by-gene screen of the unknown proteins encoded on *Plasmodium falciparum* chromosome 3, Cell Systems

Wichers-Misterek et al. 2023, A Microtubule-Associated Protein Is Essential for Malaria Parasite Transmission, mbio

Wichers et al. 2022, PMRT1, a Plasmodium -Specific Parasite Plasma Membrane Transporter, Is Essential for Asexual and Sexual Blood Stage Development, mbio

Liffner et al. 2022, Cell biological analysis reveals an essential role for Pfcerli2 in erythrocyte invasion by malaria parasites, Communications Biology

Wichers et al. 2022, Characterization of Apicomplexan Amino Acid Transporters (ApiATs) in the Malaria Parasite *Plasmodium falciparum*, mSphere

Lifffner et al. 2021, The Ins and Outs of *Plasmodium* Rhoptries, Focusing on the Cytosolic Side, Trends in Parasitology

Wichers et al. 2021, Common virulence gene expression in adult first-time infected malaria patients and severe cases, elife

Wichers et al. 2021, Identification of novel inner membrane complex and apical annuli proteins of the malaria parasite *Plasmodium falciparum*, Cellular microbiology

Ferreira et al. 2021, The Dynamic Roles of the Inner Membrane Complex in the Multiple Stages of the Malaria Parasite, Frontiers in Cellular and Infection Biology

Lubiana et al. 2020, Adhesion between *P. falciparum* infected erythrocytes and human endothelial receptors follows alternative binding dynamics under flow and febrile conditions, Scientific Reports

Geiger et al. 2019, Structural Insights Into PfARO and Characterization of its Interaction With PfAIP, Journal of Molecular Biology

Wichers et al. 2019, Dissecting the Gene Expression, Localization, Membrane Topology, and Function of the Plasmodium falciparum STEVOR Protein Family, mbio

Projects

Memberships

Other Relevant Information