

Stanford



Florian Bach

Postdoctoral Scholar, Infectious Diseases

Bio

BIO

I'm a molecular infection biologist by training, but shifted my focus from pathogens to hosts for my graduate research. During my PhD with Phil Spence in Edinburgh I studied both falciparum and vivax malaria using controlled human (re)infection models, collaborating closely with the groups of Simon Draper and Angela Minassian in Oxford. As a hybrid bioinformatician and experimentalist, I love systems immunology for answering complex questions about human health. For my postdoc, I study in how the human immune response to malaria evolves in infants as they become reinfected and age. I'm also interested in how such early-life immunological events, malaria and beyond, may affect vaccine responses and immune development later in life. I address this question by making use of a longitudinal study cohort of infants receiving monthly chemoprevention in Eastern Uganda, together with our collaborators at UC San Francisco and IDRC Uganda. I am a Global Health Postdoctoral Affiliate with the Stanford Center for Innovation in Global Health.

HONORS AND AWARDS

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STANFORD ADVISORS

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Publications

PUBLICATIONS

- **CXCR6+ CD127- Tr1 Cells Balance Immunity and Persistence in Plasmodium falciparum Infection.** *bioRxiv : the preprint server for biology*
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- **Moving beyond discovery science to a mechanistic understanding of human malaria.** *Current opinion in microbiology*
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- **Natural killer cell antibody-dependent cellular cytotoxicity to *Plasmodium falciparum* is impacted by cellular phenotypes, erythrocyte polymorphisms, parasite diversity and intensity of transmission.** *Clinical & translational immunology*
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