

Stanford



Kathleen Dantzler

Postdoctoral Research Fellow, Infectious Diseases

Bio

BIO

Throughout my scientific training, I have focused on building an interdisciplinary background in molecular parasitology, biochemistry, immunology, and public health to provide me with the skills needed to pursue development of a successful malaria vaccine. My PhD research at Harvard centered on understanding immune responses to the developing transmission stages of malaria. By providing the first evidence for natural immunity to immature transmission stages, this work supports interrupting development and maturation of these parasites as a novel approach to transmission-blocking vaccine design. During my postdoctoral fellowship and in the future, I hope to continue researching host-pathogen interactions with applications to malaria vaccine development, while also being involved in global health work in the field. Currently my work focuses on understanding mechanisms of natural immunity to malaria and immune tolerance, particularly in the context of gamma delta T cell and monocyte responses.

HONORS AND AWARDS

- Edgar Haber Award, Harvard T.H. Chan School of Public Health (May 2017)
- Harvard Global Health International Travel Fellowship, Harvard Global Health Institute (May 2012)
- Herchel Smith Graduate Fellowship, Harvard University (April 2011)
- Henry Hart Rice Foreign Residence Fellowship, Yale University (February 2010)

PROFESSIONAL EDUCATION

- Bachelor of Science, Yale University (2010)
- Doctor of Philosophy, Harvard University (2017)

Publications

PUBLICATIONS

- **Emerging role of gammadelta T cells in vaccine-mediated protection from infectious diseases.** *Clinical & translational immunology*
Dantzler, K. W., de la Parte, L., Jagannathan, P.
2019; 8 (8): e1072
- **MECHANISMS DRIVING ALTERED V Delta 2+Gamma Delta T CELL FUNCTION DURING RECURRENT MALARIA INFECTION**
Dantzler, K. W., Klemm, S., Polidoro, R., Rao, A., Junquiera, C., Dvorak, M., Rek, J., Kanya, M., Cheung, P., Kuo, A., Dorsey, G., Feeney, M., Lieberman, et al
AMER SOC TROP MED & HYGIENE.2019: 111
- **gamma delta T Cells in Antimalarial Immunity: New Insights Into Their Diverse Functions in Protection and Tolerance** *FRONTIERS IN IMMUNOLOGY*
Dantzler, K. W., Jagannathan, P.
2018; 9

- **IMPACT OF RECURRENT MALARIA ON V Delta 2 Gamma Delta T CELL <it>IN VITRO</it> ANTI-PARASITIC ACTIVITY**
Dantzer, K., Polidoro, R., Rek, J., Kanya, M., Dorsey, G., Feeney, M., Lieberman, J., Jagannathan, P.
AMER SOC TROP MED & HYGIENE.2018: 112

- **## T Cells in Antimalarial Immunity: New Insights Into Their Diverse Functions in Protection and Tolerance.** *Frontiers in immunology*
Dantzer, K. W., Jagannathan, P. n.
2018; 9: 2445