Stanford

# Kathleen Dantzler Press

Contingent, Medicine - Med/Infectious Diseases

## Publications

### PUBLICATIONS

- **Repeated malaria exposure reprograms Vδ2+ γδ T cell chromatin accessibility and immune function toward a reversible hyporesponsive state.** *bioRxiv : the preprint server for biology*

  Press, K. D., Joseph Maran, M. I., Ashkar-Masarwa, A., Camanag, K., Chen, D., Shokoohi, V., Kathiria, A., Ty, M., Nideffer, J., Rek, J., Nankabirwa, J., Nankya, F., Schulze-Hentrich, et al

  2026

- **Low birthweight and prematurity, but not malaria chemoprevention, are associated with reduced pneumococcal vaccine immunogenicity in Ugandan infants.** *The Journal of infectious diseases*

  Musinguzi, K., Sbarra, A. N., Bach, F., Nankya, F., Achom, K. B., Mwubaha, C., Nayebare, P., Nansubuga, E., Kakuru, A., Kizza, J., Maato, Z., Arinaitwe, E., Press, et al

  2026

- **Low birthweight and prematurity, but not malaria chemoprevention, are associated with reduced pneumococcal vaccine immunogenicity in Ugandan infants.** *medRxiv : the preprint server for health sciences*

  Musinguzi, K., Sbarra, A. N., Bach, F., Nankya, F., Achom, K. B., Mwubaha, C., Nayebare, P., Nansubuga, E., Kakuru, A., Kizza, J., Maato, Z., Arinaitwe, E., Press, et al

  2026

- **Cytotoxic Vδ2+ T cell subsets expand in response to malaria in human tonsil and spleen organoids.** *PLoS pathogens*

  Press, K. D., Bach, F., Sola, E., Camanag, K., Dooley, N. L., Ivanawati, A., Oyong, D., Nalubega, M., Kakuru, A., Matsiko, S., Nankya, F., Musinguzi, K., Nalwoga, et al

  2026; 22 (4): e1013565

- **ANTIBODY FC GLYCOSYLATION MODULATES NATURAL KILLER CELL-MEDIATED ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY (ADCC) IN MALARIA-EXPOSED PREGNANT WOMEN**

  Lewis, S. N., Kirosingh, A. S., van der Ploeg, K., Press, K. D., Nankya, F., Musinguzi, K., Nansubuga, E., Tukwasibwe, S., Lopez-Perez, M., Kamya, M. R., Rosenthal, P., Dorsey, G., Hviid, et al

  AMER SOC TROP MED & HYGIENE.2025

- **Reversible host cell surface remodelling limits immune recognition and maximizes survival of Plasmodium falciparum gametocytes.** *PLoS pathogens*

  Ngotho, P., Dantzler Press, K., Peedell, M., Muasya, W., Omondi, B. R., Otoboh, S. E., Gomez, J., Coronado, L., Seydel, K. B., Kapulu, M., Laufer, M., Taylor, T., Bousema, et al

  2025; 21 (5): e1013110

- **Prior vaccination prevents overactivation of innate immune responses during COVID-19 breakthrough infection.** *Science translational medicine*

  Chan, L., Pinedo, K., Stabile, M. A., Hamlin, R. E., Pienkos, S. M., Ratnasiri, K., Yang, S., Blomkalns, A. L., Nadeau, K. C., Pulendran, B., O'Hara, R., Rogers, A. J., Holmes, et al

  2025; 17 (783): eadq1086

- **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*

  Tukwasibwe, S., Lewis, S. N., Taremwa, Y., van der Ploeg, K., Press, K. D., Ty, M., Namirimu Nankya, F., Musinguzi, K., Nansubuga, E., Bach, F., Chamai, M., Okitwi, M., Tumusiime, et al

  2024; 13 (11): e70005

- **Clinical immunity to malaria involves epigenetic reprogramming of innate immune cells.** *PNAS nexus*
  Nideffer, J., Ty, M., Donato, M., John, R., Kajubi, R., Ji, X., Nankya, F., Musinguzi, K., Press, K. D., Yang, N., Camanag, K., Greenhouse, B., Kamya, et al
  2024; 3 (8): pgae325

- **Reversible host cell surface remodelling limits immune recognition and maximizes transmission of Plasmodium falciparum gametocytes.** *bioRxiv : the preprint server for biology*
  Ngotho, P., Press, K. D., Peedell, M., Muasya, W., Omondi, B. R., Otoboh, S. E., Seydel, K. B., Kapulu, M., Laufer, M., Taylor, T., Bousema, T., Marti, M.
  2024

- **Malaria-specific Type 1 regulatory T cells are more abundant in first pregnancies and associated with placental malaria.** *EBioMedicine*
  Kirosingh, A. S., Delmastro, A., Kakuru, A., van der Ploeg, K., Bhattacharya, S., Press, K. D., Ty, M., Parte, L., Kizza, J., Muhindo, M., Devachanne, S., Gamain, B., Nankya, et al
  2023; 95: 104772

- **Malaria-driven expansion of adaptive-like functional CD56-negative NK cells correlates with clinical immunity to malaria.** *Science translational medicine*
  Ty, M., Sun, S., Callaway, P. C., Rek, J., Press, K. D., van der Ploeg, K., Nideffer, J., Hu, Z., Klemm, S., Greenleaf, W., Donato, M., Tukwasibwe, S., Arinaitwe, et al
  2023; 15 (680): eadd9012

- **Early immune markers of clinical, virological, and immunological outcomes in patients with COVID-19: a multi-omics study.** *eLife*
  Hu, Z., van der Ploeg, K., Chakraborty, S., Arunachalam, P. S., Mori, D. A., Jacobson, K. B., Bonilla, H., Parsonnet, J., Andrews, J. R., Holubar, M., Subramanian, A., Khosla, C., Maldonado, et al
  2022; 11

- **The acquisition of humoral immune responses targeting Plasmodium falciparum sexual stages in controlled human malaria infections.** *Frontiers in immunology*
  de Jong, R. M., Alkema, M., Oulton, T., Dumont, E., Teelen, K., Nakajima, R., de Assis, R. R., Press, K. W., Ngotho, P., Tetteh, K. K., Felgner, P., Marti, M., Collins, et al
  2022; 13: 930956

- **TNF-alpha+ CD4+ Tcells dominate the SARS-CoV-2 specific T cell response in COVID-19 outpatients and are associated with durable antibodies.** *Cell reports. Medicine*
  van der Ploeg, K., Kirosingh, A. S., Mori, D. A., Chakraborty, S., Hu, Z., Sievers, B. L., Jacobson, K. B., Bonilla, H., Parsonnet, J., Andrews, J. R., Press, K. D., Ty, M. C., Ruiz-Betancourt, et al
  2022: 100640

- **Early immune responses have long-term associations with clinical, virologic, and immunologic outcomes in patients with COVID-19.** *Research square*
  Hu, Z., van der Ploeg, K., Chakraborty, S., Arunachalam, P., Mori, D., Jacobson, K., Bonilla, H., Parsonnet, J., Andrews, J., Hedlin, H., de la Parte, L., Dantzler, K., Ty, et al
  2022

- **DIMINISHED V delta 2+delta gamma T CELL CYTOKINE PRODUCTION AND DEGRANULATION FOLLOWING IN VITRO MALARIA EXPOSURE**
  Dantzler, K., Klemm, S., Rek, J., Nankya, F., Ssewanyana, I., Kamya, M., Greenhouse, B., Dorsey, G., Feeney, M., Greenleaf, W., Jagannathan, P.
  AMER SOC TROP MED & HYGIENE.2021: 16

- **MALARIA-DRIVEN EXPANSION OF MATURE, SHORT-LIVED FUNCTIONAL CD56NEG NK CELLS CORRELATES WITH CLINICAL IMMUNITY TO MALARIA**
  Ty, M., de la Parte, L., Dantzler, K., van der Ploeg, K., Callaway, P., Tukwasibwe, S., Rek, J., Arinaitwe, E., Ssewanyana, I., Nankya, F., Musinguzi, K., Dorsey, G., Boyle, et al
  AMER SOC TROP MED & HYGIENE.2021: 16-17

- **SARS-CoV-2 RNAemia predicts clinical deterioration and extrapulmonary complications from COVID-19.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
  Ram-Mohan, N. n., Kim, D. n., Zudock, E. J., Hashemi, M. M., Tjandra, K. C., Rogers, A. J., Blish, C. A., Nadeau, K. C., Newberry, J. A., Quinn, J. V., O'Hara, R. n., Ashley, E. n., Nguyen, et al
  2021

- **Naturally acquired immunity against immature Plasmodium falciparum gametocytes** *SCIENCE TRANSLATIONAL MEDICINE*
  Dantzler, K. W., Ma, S., Ngotho, P., Stone, W. J. R., Tao, D., Rijpma, S., De Niz, M., Bark, S., Jore, M. M., Raaijmakers, T. K., Early, A. M., Ubaida-Mohien, C., Lemgruber, et al
  2019; 11 (495)

- **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., Kamya, M., Cheung, P., Kuo, A., Dorsey, G., Feeney, M., Lieberman, et al
  AMER SOC TROP MED & HYGIENE.2019: 111

- **γδ 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: 2445

- **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**
  Dantzler, K., Polidoro, R., Rek, J., Kamya, M., Dorsey, G., Feeney, M., Lieberman, J., Jagannathan, P.
  AMER SOC TROP MED & HYGIENE.2018: 112

- **Quantitative Proteomic Profiling Reveals Novel Plasmodium falciparum Surface Antigens and Possible Vaccine Candidates** *MOLECULAR & CELLULAR PROTEOMICS*
  Nilsson, S. K., Ahmad, R., Dantzler, K., Lukens, A. K., De Niz, M., Szucs, M. J., Jin, X., Cotton, J., Hoffmann, D., Bric-Furlong, E., Oomen, R., Parrington, M., Milner, et al
  2018; 17 (1): 57-74

- **GAMETOCYTE-SPECIFIC IMMUNITY PROVIDES A RATIONALE FOR NOVEL TRANSMISSION BLOCKING INTERVENTIONS IN PLASMODIUM FALCIPARUM**
  Dantzler, K., Rijpma, S., Ma, S., Tao, D., Stone, W., Seydel, K., Laufer, M., Davies, H., Felgner, P., Dinglasan, R., Taylor, T., Huttenhower, C., Bousema, et al
  AMER SOC TROP MED & HYGIENE.2017: 414

- **PLASMODIUM FALCIPARUM PHISTC PROTEINS ARE REQUIRED FOR ANTIGEN DELIVERY TO THE INFECTED ERYTHROCYTE SURFACE**
  Ravel, D. B., Mantel, P., Dantzler, K. W., Beyer, W. C., Brancucci, N. M., Duraisingh, M. T., Marti, M.
  AMER SOC TROP MED & HYGIENE.2017: 13

- **Naturally acquired immunity to sexual stage P. falciparum parasites** *PARASITOLOGY*
  Stone, W. J. R., Dantzler, K. W., Nilsson, S. K., Drakeley, C. J., Marti, M., Bousema, T., Rijpma, S. R.
  2016; 143 (2): 187-198

- **CHARACTERIZATION OF IMMUNE RESPONSES TO PLASMODIUM FALCIPARUM GAMETOCYTES**
  Dantzler, K. W., Seydel, K., Laufer, M., Taylor, T., Marti, M.
  AMER SOC TROP MED & HYGIENE.2015: 7

- **Ensuring transmission through dynamic host environments: host-pathogen interactions in Plasmodium sexual development** *CURRENT OPINION IN MICROBIOLOGY*
  Dantzler, K. W., Ravel, D. B., Brancucci, N. M. B., Marti, M.
  2015; 26: 17-23