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Publications

PUBLICATIONS

- **Cytotoxic V δ 2+ 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
- **CXCR6+ CD127- Tr1 Cells Balance Immunity and Persistence in Plasmodium falciparum Infection.** *bioRxiv : the preprint server for biology*
Nideffer, J., Bach, F., Strubbe, S., Lopez, L., Zedi, M., Nankya, F., Briggs, J., van der Ploeg, K., Musinguzi, K., Kim, S., Romero, A. G., Keya, A., Camanag, et al
2025
- **Clone tracking through repeated malaria identifies high-fidelity memory CD4 T cell responses.** *Science immunology*
Nideffer, J., Bach, F., Nankya, F., Musinguzi, K., Borna, Š., Mantilla, M., Zedi, M., Garcia Romero, A., Gerungan, C., Yang, N., Kim, S., van der Ploeg, K., Camanag, et al
2025; 10 (106): eads2957
- **Single-cell profiling aligns CD56^{bright} and cytomegalovirus-induced adaptive natural killer cells to a naïve-memory relationship** *FRONTIERS IN IMMUNOLOGY*
Panjwani, M., Grassmann, S., Sottile, R., Le Ludeuc, J., Kontopoulos, T., van der Ploeg, K., Sun, J. C., Hsu, K. C.
2024; 15: 1499492
- **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
- **Gestational SARS-CoV-2 Infection in a Ugandan Birth Cohort: High Incidence, Mild Maternal Disease, and Evidence of Association with Transient Infant Stunting.** *The American journal of tropical medicine and hygiene*
Jacobson, K. B., Roltgen, K., Lam, B., Nayebare, P., Kakuru, A., Kizza, J., Aguti, M., Nankya, F., Briggs, J., Takahashi, S., Greenhouse, B., Rodriguez-Barraquer, I., van der Ploeg, et al
2024
- **Emergence of human CMV-induced NKG2C+ NK cells is associated with CD8+ T-cell recovery after allogeneic HCT.** *Blood advances*
van der Ploeg, K., Sottile, R., Kontopoulos, T., Shaffer, B. C., Papanicolaou, G. A., Maloy, M. A., Cho, C., Robinson, K. S., Perales, M., Le Ludeuc, J., Hsu, K. C.
2023; 7 (19): 5784-5798
- **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
- **Spheromers reveal robust T cell responses to the Pfizer/BioNTech vaccine and attenuated peripheral CD8+ T cell responses post SARS-CoV-2 infection.** *Immunity*
Gao, F., Mallajoyula, V., Arunachalam, P. S., van der Ploeg, K., Manohar, M., Röltgen, K., Yang, F., Wirz, O., Hoh, R., Haraguchi, E., Lee, J. Y., Willis, R., Ramachandiran, et al
2023

- **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
- **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., Kiro Singh, 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
- **HLA-A alleles influencing NK cell function impact AML relapse following allogeneic hematopoietic cell transplantation** *BLOOD ADVANCES*
van der Ploeg, K., Le Luduec, J., Stevenson, P. A., Park, S., Gooley, T. A., Petersdorf, E. W., Shaffer, B. C., Hsu, K. C.
2020; 4 (19): 4955-4964
- **Cytomegalovirus Infection Drives Avidity Selection of Natural Killer Cells** *IMMUNITY*
Adams, N. M., Geary, C. D., Santosa, E. K., Lumaquin, D., Le Luduec, J., Sottile, R., van der Ploeg, K., Hsu, J., Whitlock, B. M., Jackson, B. T., Weizman, O., Huse, M., Hsu, et al
2019; 50 (6): 1381-+
- **Modulation of Human Leukocyte Antigen-C by Human Cytomegalovirus Stimulates KIR2DS1 Recognition by Natural Killer Cells** *FRONTIERS IN IMMUNOLOGY*
van der Ploeg, K., Chang, C., Ivarsson, M. A., Moffett, A., Wills, M. R., Trowsdale, J.
2017; 8: 298
- **Membrane lipid saturation activates endoplasmic reticulum unfolded protein response transducers through their transmembrane domains** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Volmer, R., van der Ploeg, K., Ron, D.
2013; 110 (12): 4628-4633