Stanford



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Ph.D. Student in Immunology, admitted Autumn 2021

Publications

PUBLICATIONS

- **The immunometabolic topography of cellular organization and bacterial control in tuberculosis granulomas.** *Nature immunology*
  McCaffrey, E. F., Delmastro, A. C., Fitzhugh, I., Ranek, J. S., Douglas, S., Peters, J. M., Fullaway, C. C., Bosse, M., Liu, C. C., Gillen, C., Greenwald, N. F., Anzick, S., Martens, et al
  2026

- **Automated classification of cellular expression in multiplexed imaging data with Nimbus.** *Nature methods*
  Rumberger, J. L., Greenwald, N. F., Ranek, J. S., Boonrat, P., Walker, C., Franzen, J., Varra, S. R., Kong, A., Sowers, C., Liu, C. C., Averbukh, I., Piyadasa, H., Vanguri, 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
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- **The immunometabolic topography of tuberculosis granulomas governs cellular organization and bacterial control.** *bioRxiv : the preprint server for biology*
  McCaffrey, E. F., Delmastro, A. C., Fitzhugh, I., Ranek, J. S., Douglas, S., Peters, J. M., Fullaway, C. C., Bosse, M., Liu, C. C., Gillen, C., Greenwald, N. F., Anzick, S., Martens, et al
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- **Automated classification of cellular expression in multiplexed imaging data with Nimbus.** *bioRxiv : the preprint server for biology*
  Rumberger, J. L., Greenwald, N. F., Ranek, J. S., Boonrat, P., Walker, C., Franzen, J., Varra, S. R., Kong, A., Sowers, C., Liu, C. C., Averbukh, I., Piyadasa, H., Vanguri, et al
  2024

- **High-resolution natural killer cell phenotyping by mass cytometry in pediatric transplant recipients**
  Zhang, W., Pena, J. K., Boonrat, P., Harden, J. T., Esquivel, C. O., Martinez, O. M., Krams, S. M.
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