



## Potchara Boonrat

Ph.D. Student in Immunology, admitted Autumn 2021

### Publications

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#### 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  
2025; 10 (106): eads2957
- **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  
2025
- **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.  
WILEY.2023