

Caroline Duncombe

Postdoctoral Scholar, Immunity Transplant Infection

Bio

BIO

Dr. Caroline Duncombe is a Postdoctoral Scholar in the Institute for Immunity, Transplantation, and Infection at Stanford University. Her research broadly explores how sex-based differences influence immune responses to infectious diseases. She applies systems-level approaches to investigate molecular and cellular mechanisms underlying immune variation, with the goal of informing more equitable and effective interventions.

Dr. Duncombe earned her PhD in Pathobiology from the University of Washington, where she pursued interdisciplinary research integrating systems biology, immunology, epidemiology, endocrinology, and parasitology. Her work has contributed to a deeper understanding of how sex and sex hormones shape host-pathogen interactions and vaccine responses.

In addition to her academic research, Dr. Duncombe is committed to science communication. She has produced science-focused comedy shows for over four years, using storytelling and humor to make complex scientific ideas more accessible.

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STANFORD ADVISORS

- Prasanna Jagannathan, Postdoctoral Research Mentor
- Purvesh Khatri, Postdoctoral Faculty Sponsor

LINKS

- LinkedIn: [linkedin.com/in/caroline-duncombe-phd-4ba11a124](https://www.linkedin.com/in/caroline-duncombe-phd-4ba11a124)
- My Personal Website: www.carolinethescientist.com

Publications

PUBLICATIONS

- **Androgens inhibit protective CD8⁺ T cell responses against pre-erythrocytic malaria parasites in mice** *NATURE COMMUNICATIONS*
Duncombe, C. J., Sen, N., Watson, F. N., Poehlman, A. S., Layton, E. D., Boey, K., Conrad, E. N., Kalata, A. C., Seilie, A., Dill-McFarland, K. A., Seshadri, C., Shears, M. J., Murphy, et al
2025; 16 (1): 5172
- **Multiple early factors anticipate post-acute COVID-19 sequelae.** *Cell*
Su, Y., Yuan, D., Chen, D. G., Ng, R. H., Wang, K., Choi, J., Li, S., Hong, S., Zhang, R., Xie, J., Kornilov, S. A., Scherler, K., Pavlovitch-Bedzyk, et al
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