



Trisha Barnard

Postdoctoral Scholar, Infectious Diseases

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, McGill University , Microbiology & Immunology (2022)
- Bachelor of Science, University of British Columbia , Combined Honors Biochemistry & Chemistry (2016)

STANFORD ADVISORS

- Catherine Blish, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Profiling the natural killer cell response to acute Zika virus infection by mass cytometry**
Barnard, T. R., Beltran, D., Cruz, N. G., Arauz, D., Weeden, A., Lopez-Verges, S. L., Blish, C. A.
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- **Zika virus induces persistent phenotypic changes in natural killer cells distinct from dengue virus infection.** *bioRxiv : the preprint server for biology*
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2025
- **Membrane-wide screening identifies potential tissue-specific determinants of SARS-CoV-2 tropism.** *PLoS pathogens*
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- **COVID-19 induces persistent transcriptional changes in adipose tissue that are not associated with Long COVID.** *bioRxiv : the preprint server for biology*
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2025
- **NK Cell-Monocyte Cross-talk Underlies NK Cell Activation in Severe COVID-19.** *Journal of immunology (Baltimore, Md. : 1950)*
Lee, M. J., de Los Rios Kobara, I., Barnard, T. R., Vales Torres, X., Tobin, N. H., Ferbas, K. G., Rimoin, A. W., Yang, O. O., Aldrovandi, G. M., Wilk, A. J., Fulcher, J. A., Blish, C. A.
2024
- **Zika virus NS3 and NS5 proteins determine strain-dependent differences in dsRNA accumulation in a host cell type-dependent manner.** *The Journal of general virology*
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- **A highly sensitive strand-specific multiplex RT-qPCR assay for quantitation of Zika virus replication** *JOURNAL OF VIROLOGICAL METHODS*
Barnard, T. R., Wang, A. B., Sagan, S. M.
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- **Molecular Determinants of Flavivirus Virion Assembly** *TRENDS IN BIOCHEMICAL SCIENCES*
Barnard, T. R., Abram, Q. H., Lin, Q., Wang, A. B., Sagan, S. M.
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- **Hepatitis B Virus Therapeutic Agent ARB-1740 Has Inhibitory Effect on Hepatitis Delta Virus in a New Dually-Infected Humanized Mouse Model** *ACS INFECTIOUS DISEASES*
Ye, X., Tateno, C., Thi, E. P., Kakuni, M., Snead, N. M., Ishida, Y., Barnard, T. R., Sofia, M. J., Shimada, T., Lee, A. C. H.
2019; 5 (5): 738-749
- **Contemporary Zika Virus Isolates Induce More dsRNA and Produce More Negative-Strand Intermediate in Human Astrocytoma Cells** *VIRUSES-BASEL*
Barnard, T. R., Rajah, M. M., Sagan, S. M.
2018; 10 (12)
- **Zika virus infection: induction, restriction and evasion of host interferon responses** *FUTURE VIROLOGY*
Barnard, T. R., Rajah, M., Sagan, S. M.
2017; 12 (11): 627-630
- **Lipid nanoparticle siRNA treatment of Ebola-virus-Makona-infected nonhuman primates** *NATURE*
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