



## Nichole Escalante

Postdoctoral Research Fellow, Pathology

### Bio

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#### HONORS AND AWARDS

- CIHR Fellowship (Postdoctoral), Canadian Institutes of Health Research (2018-2021)
- Vanier Canada Graduate Scholarship, Canadian Institutes of Health Research (2013-2016)
- Frederick Banting and Charles Best Canada Graduate Scholarship, Canadian Institutes of Health Research (2013)
- Ontario Graduate Scholarship, Government of Ontario (2012)
- Queen Elisabeth II/ Aventis Pasteur Graduate Scholarship in Science and Technology, Province of Ontario/ University of Toronto (2011)

#### PROFESSIONAL EDUCATION

- Bachelor of Science, Simon Fraser University (2011)
- Doctor of Philosophy, University of Toronto (2017)

### Publications

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#### PUBLICATIONS

- **The heme-regulated inhibitor is a cytosolic sensor of protein misfolding that controls innate immune signaling** *SCIENCE*  
Abdel-Nour, M., Carneiro, L. M., Downey, J., Tsalikis, J., Outlioua, A., Prescott, D., Da Costa, L., Hovingh, E. S., Farahvash, A., Gaudet, R. G., Molinaro, R., van Dalen, R., Lau, et al  
2019; 365 (6448): 47-+
- **Structure of the IFN gamma receptor complex guides design of biased agonists** *NATURE*  
Mendoza, J. L., Escalante, N. K., Jude, K. M., Bellon, J., Su, L., Horton, T. M., Tsutsumi, N., Berardinelli, S. J., Haltiwanger, R. S., Piehler, J., Engleman, E. G., Garcia, K.  
2019; 567 (7746): 56-+
- **Structure of the IFNgamma receptor complex guides design of biased agonists.** *Nature*  
Mendoza, J. L., Escalante, N. K., Jude, K. M., Sotolongo Bellon, J., Su, L., Horton, T. M., Tsutsumi, N., Berardinelli, S. J., Haltiwanger, R. S., Piehler, J., Engleman, E. G., Garcia, K. C.  
2019
- **Circulating NOD1 Activators and Hematopoietic NOD1 Contribute to Metabolic Inflammation and Insulin Resistance.** *Cell reports*  
Chan, K. L., Tam, T. H., Boroumand, P., Prescott, D., Costford, S. R., Escalante, N. K., Fine, N., Tu, Y., Robertson, S. J., Prabaharan, D., Liu, Z., Bilan, P. J., Salter, et al  
2017; 18 (10): 2415-26
- **The common mouse protozoa *Tritrichomonas muris* alters mucosal T cell homeostasis and colitis susceptibility.** *The Journal of experimental medicine*  
Escalante, N. K., Lemire, P., Cruz Tleugabulova, M., Prescott, D., Mortha, A., Streutker, C. J., Girardin, S. E., Philpott, D. J., Mallewaey, T.  
2016; 213 (13): 2841-50

- **Discrete TCR Binding Kinetics Control Invariant NKT Cell Selection and Central Priming.** *Journal of immunology (Baltimore, Md. : 1950)*  
Cruz Tleugabulova, M., Escalante, N. K., Deng, S., Fieve, S., Ereño-Orbea, J., Savage, P. B., Julien, J. P., Mallevaey, T.  
2016; 197 (10): 3959–69
  
- **Nod1 and Nod2 enhance TLR-mediated invariant NKT cell activation during bacterial infection.** *Journal of immunology (Baltimore, Md. : 1950)*  
Selvanantham, T., Escalante, N. K., Cruz Tleugabulova, M., Fiévé, S., Girardin, S. E., Philpott, D. J., Mallevaey, T.  
2013; 191 (11): 5646–54
  
- **Inflammatory cytokines determine the susceptibility of human CD8 T cells to Fas-mediated activation-induced cell death through modulation of FasL and c-FLIP(S) expression.** *The Journal of biological chemistry*  
von Rossum, A., Krall, R., Escalante, N. K., Choy, J. C.  
2011; 286 (24): 21137–44
  
- **CD155 on human vascular endothelial cells attenuates the acquisition of effector functions in CD8 T cells.** *Arteriosclerosis, thrombosis, and vascular biology*  
Escalante, N. K., von Rossum, A., Lee, M., Choy, J. C.  
2011; 31 (5): 1177–84