

Stanford



Edward Vizcarra

Postdoctoral Scholar, Transplantation Surgery

Bio

BIO

Edward Vizcarra (he/him) is a postdoctoral scholar working under the guidance of Dr. Olivia Martinez. His research focuses on characterizing the immune response to Epstein-Barr Virus (EBV) in pediatric transplant patients. Specifically, he will compare EBV-seropositive patient samples with high vs controlled viral load, with an emphasis on understanding the EBV-specific T cell repertoire. He holds a BS in Biochemistry and Cell Biology from UC, San Diego, and a PhD in Biomedical Science from UC, Riverside. While at UCR, he spearheaded several community service projects such as food/ toy drives, campus tours for the local youth center, a speaker series highlighting the experiences of first-generation graduate students navigating higher education, and a podcast called “Welcome to Grad School”, in efforts to help undergraduates and the grad-curious understand what graduate school is like. In his spare time, you can find him either with family or out in nature.

STANFORD ADVISORS

- Olivia Martinez, Postdoctoral Faculty Sponsor

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Immunology, Epstein–Barr virus, Multisystem inflammatory syndrome in children

Publications

PUBLICATIONS

- **An ex vivo model of Toxoplasma recrudescence reveals developmental plasticity of the bradyzoite stage.** *mBio*
Vizcarra, E. A., Goerner, A. L., Ulu, A., Hong, D. D., Bergersen, K. V., Talavera, M. A., Le Roch, K., Wilson, E. H., White, M. W.
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- **Group 1 metabotropic glutamate receptor expression defines a T cell memory population during chronic Toxoplasma infection that enhances IFN-gamma and perforin production in the CNS.** *Brain, behavior, and immunity*
Vizcarra, E. A., Ulu, A., Landrith, T. A., Qiu, X., Godzik, A., Wilson, E. H.
2023
- **A genetic tool for the longitudinal study of a subset of post-inflammatory reactive astrocytes** *CELL REPORTS METHODS*
Agnew-Svoboda, W., Ubina, T., Figueroa, Z., Wong, Y., Vizcarra, E. A., Roebini, B., Wilson, E. H., Fiacco, T. A., Riccomagno, M. M.
2022; 2 (8): 100276
- **Correction: CD4+ T cells promote humoral immunity and viral control during Zika virus infection.** *PLoS pathogens*
Elong Ngono, A., Young, M. P., Bunz, M., Xu, Z., Hattakam, S., Vizcarra, E., Regla-Nava, J. A., Tang, W. W., Yamabhai, M., Wen, J., Shrestha, S.
2019; 15 (5): e1007821

- **A longitudinal systems immunologic investigation of acute Zika virus infection in an individual infected while traveling to Caracas, Venezuela.** *PLoS neglected tropical diseases*
Carlin, A. F., Wen, J., Vizcarra, E. A., McCauley, M., Chaillon, A., Akrami, K., Kim, C., Ngonu, A. E., Lara-Marquez, M. L., Smith, D. M., Glass, C. K., Schooley, R. T., Benner, et al
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- **Deconvolution of pro- and antiviral genomic responses in Zika virus-infected and bystander macrophages.** *Proceedings of the National Academy of Sciences of the United States of America*
Carlin, A. F., Vizcarra, E. A., Branche, E., Viramontes, K. M., Suarez-Amaran, L., Ley, K., Heinz, S., Benner, C., Shresta, S., Glass, C. K.
2018; 115 (39): E9172-E9181
- **An IRF-3-, IRF-5-, and IRF-7-Independent Pathway of Dengue Viral Resistance Utilizes IRF-1 to Stimulate Type I and II Interferon Responses.** *Cell reports*
Carlin, A. F., Plummer, E. M., Vizcarra, E. A., Sheets, N., Joo, Y., Tang, W., Day, J., Greenbaum, J., Glass, C. K., Diamond, M. S., Shresta, S.
2017; 21 (6): 1600-1612
- **Mapping and Role of the CD8+ T Cell Response During Primary Zika Virus Infection in Mice.** *Cell host & microbe*
Elong Ngonu, A., Vizcarra, E. A., Tang, W. W., Sheets, N., Joo, Y., Kim, K., Gorman, M. J., Diamond, M. S., Shresta, S.
2017; 21 (1): 35-46