Stanford



Daniel Hoces Burga

Postdoctoral Scholar, Biology

Bio

HONORS AND AWARDS

- Postdoctoral Fellow, Swiss National Science Foundation (2023)

PROFESSIONAL EDUCATION

- Doctor of Sciences, ETH Zurich (2022)
- Master of Science, University of Zurich (2017)
- B of Medicine and B of Surgery, Universidad Peruana Cayetano Heredia (2014)

STANFORD ADVISORS

- Christopher Barnes, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Directed evolution of LaccID for cell surface proximity labeling and electron microscopy.** *Nature chemical biology*
  Lee, S., Roh, H., Gonzalez-Perez, D., Mackey, M. R., Hoces, D., McLaughlin, C. N., Lin, C., Adams, S. R., Nguyen, K., Kim, K., Luginbuhl, D. J., Luo, L., Udeshi, et al
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- **Investigating Polyreactivity of CD4⁺ T Cells to the Intestinal Microbiota** *EUROPEAN JOURNAL OF IMMUNOLOGY*
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- **Targeting peptide antigens using a multiallelic MHC I-binding system.** *Nature biotechnology*
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  2024

- **A synthetic biology approach to engineering circuits in immune cells.** *Immunological reviews*
  Hoces, D., Miguens Blanco, J., Hernandez-Lopez, R. A.
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- **Fitness advantage of Bacteroides thetaiotaomicron capsular polysaccharide in the mouse gut depends on the resident microbiota** *ELIFE*
  Hoces, D., Greter, G., Arnoldini, M., Staubli, M. L., Moresi, C., Sintsova, A., Berent, S., Kolinko, I., Bansept, F., Woller, A., Hafliger, J., Martens, E., Hardt, et al
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- **"EvoVax" - A rationally designed inactivated Salmonella Typhimurium vaccine induces strong and long-lasting immune responses in pigs.** *Vaccine*
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- **Metabolic reconstitution of germ-free mice by a gnotobiotic microbiota varies over the circadian cycle.** *PLoS biology*
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- **A rationally designed oral vaccine induces immunoglobulin A in the murine gut that directs the evolution of attenuated Salmonella variants.** *Nature microbiology*
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- **High throughput sequencing provides exact genomic locations of inducible prophages and accurate phage-to-host ratios in gut microbial strains** *MICROBIOME*
  Zund, M., Ruscheweyh, H., Field, C. M., Meyer, N., Cuenca, M., Hoces, D., Hardt, W., Sunagawa, S.
  2021; 9 (1): 77

- **Regulatory T cell expansion resolves after effective strongyloidiasis treatment in subjects with HTLV-1 co-infection** *PARASITOLOGY INTERNATIONAL*
  Hoces, D., Barros, N., Woll, F., Bauer, A., Clinton White, A., Montes, M.
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- **Escherichia coli limits Salmonella Typhimurium infections after diet shifts and fat-mediated microbiota perturbation in mice.** *Nature microbiology*
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- **Growing, evolving and sticking in a flowing environment: understanding IgA interactions with bacteria in the gut** *IMMUNOLOGY*
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- **Do Memory CD4 T Cells Keep Their Cell-Type Programming: Plasticity versus Fate Commitment? T-Cell Heterogeneity, Plasticity, and Selection in Humans** *COLD SPRING HARBOR PERSPECTIVES IN BIOLOGY*
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- **Missed opportunities for HIV control: Gaps in HIV testing for partners of people living with HIV in Lima, Peru** *PLOS ONE*
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- **Assessing the HIV Care Continuum in Latin America: progress in clinical retention, cART use and viral suppression** *JOURNAL OF THE INTERNATIONAL AIDS SOCIETY*
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