Stanford

Derek Le

Postdoctoral Scholar, Developmental Biology

Bio

STANFORD ADVISORS

- Alistair Boettiger, Postdoctoral Faculty Sponsor

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)

Publications

PUBLICATIONS

- **Single-cell 3D genome imaging shows super-enhancer hubs are rare, nonspecific, and neither necessary nor sufficient for transcriptional bursting.** *Cell genomics*
  Le, D. J., Hafner, A., Raja Venkatesh, A., Udomlumleart, T., Gaddam, S., Novacic, A., Wang, K. C., Boettiger, A. N.
  2026: 101331

- **Single-cell chromatin state transitions during epigenetic memory formation.** *Science advances*
  Fujimori, T., Thurm, A. R., Gaudin, S., Rios-Martinez, C., Doughty, B. R., Hinks, M. M., Sinha, J., Le, D., Hafner, A., Greenleaf, W. J., Boettiger, A. N., Bintu, L.
  2026; 12 (30): eaeb0060

- **3D genetic architecture of schizophrenia risk across three neuronal subtypes.** *Molecular psychiatry*
  Powell, S. K., Liao, W., Ghorbani, S., Rigat, R., O'Shea, C., Kammourh, S., Elahi, R., Infante, D., Deans, P. J., Le, D. J., Agarwal, P., Qiang Seow, W., Balafkan, et al
  2025

- **Fluoxazolevir inhibits hepatitis C virus infection in humanized chimeric mice by blocking viral membrane fusion.** *Nature microbiology*
  Ma, C. D., Imamura, M., Talley, D. C., Rolt, A., Xu, X., Wang, A. Q., Le, D., Uchida, T., Osawa, M., Teraoka, Y., Li, K., Hu, X., Park, et al
  2020; 5 (12): 1532-1541

- **Chlorcyclizine Inhibits Viral Fusion of Hepatitis C Virus Entry by Directly Targeting HCV Envelope Glycoprotein 1.** *Cell chemical biology*
  Hu, Z., Rolt, A., Hu, X., Ma, C. D., Le, D. J., Park, S. B., Houghton, M., Southall, N., Anderson, D. E., Talley, D. C., Lloyd, J. R., Marugan, J. C., Liang, et al
  2020; 27 (7): 780-792.e5

- **Discovery and characterization of a novel HCV inhibitor targeting the late stage of HCV life cycle.** *Antiviral therapy*
  Park, S. B., Boyer, A., Hu, Z., Le, D., Liang, T. J.
  2019; 24 (5): 371-381

- **Preclinical Pharmacological Development of Chlorcyclizine Derivatives for the Treatment of Hepatitis C Virus Infection.** *The Journal of infectious diseases*
  Rolt, A., Le, D., Hu, Z., Wang, A. Q., Shah, P., Singleton, M., Hughes, E., Dulcey, A. E., He, S., Imamura, M., Uchida, T., Chayama, K., Xu, et al
  2018; 217 (11): 1761-1769

- **Transcriptomic Analysis of Cultured Corneal Endothelial Cells as a Validation for Their Use in Cell Replacement Therapy.** *Cell transplantation*

Frausto, R. F., Le, D. J., Aldave, A. J.
2016; 25 (6): 1159-76

- **Identification of Potentially Pathogenic Variants in the Posterior Polymorphous Corneal Dystrophy 1 Locus.** *PloS one*
  Le, D. J., Chung, D. D., Frausto, R. F., Kim, M. J., Aldave, A. J.
  2016; 11 (6): e0158467
- **Whole Exome Sequencing and Segregation Analysis Confirms That a Mutation in COL17A1 Is the Cause of Epithelial Recurrent Erosion Dystrophy in a Large Dominant Pedigree Previously Mapped to Chromosome 10q23-q24.** *PloS one*
  Lin, B. R., Le, D. J., Chen, Y., Wang, Q., Chung, D. D., Frausto, R. F., Croasdale, C., Yee, R. W., Hejtmancik, F. J., Aldave, A. J.
  2016; 11 (6): e0157418
- **Identification of novel PIKFYVE gene mutations associated with Fleck corneal dystrophy.** *Molecular vision*
  Gee, J. A., Frausto, R. F., Chung, D. D., Tangmonkongvoragul, C., Le, D. J., Wang, C., Han, J., Aldave, A. J.
  2015; 21: 1093-100
- **Posterior amorphous corneal dystrophy is associated with a deletion of small leucine-rich proteoglycans on chromosome 12.** *PloS one*
  Kim, M. J., Frausto, R. F., Rosenwasser, G. O., Bui, T., Le, D. J., Stone, E. M., Aldave, A. J.
  2014; 9 (4): e95037