Stanford

Zhainib A. Amir

Bio

BIO

I received my B.S. in Microbiology, and M.S. in Cell and Molecular Biology from San Francisco State University. Currently, I am a Biology Ph.D. student with an emphasis in Cell, Molecular and Organismal Biology at Stanford University. I am interested in a range of topics, from cell biology to cancer immunology, however, my research interests lie primarily in understanding the cellular mechanisms at play in genetic and autoimmune diseases.

INSTITUTE AFFILIATIONS

- Member (Student), Cardiovascular Institute

EDUCATION AND CERTIFICATIONS

- M.S., San Francisco State University , Cell and Molecular Biology (2018)
- B.S., San Francisco State University , Microbiology (2016)

Publications

PUBLICATIONS

- **Human vein-to-artery endothelial cell fate transition is driven by VEGF/ERK activation and PI3K inhibition.** *Development (Cambridge, England)*
  Amir Ugokwe, Z., Pyke, A. L., Trimm, E., Chakraborty, M., Fan, X., Lay Teng, A., Loh, K. M., Red-Horse, K.
  2026
- **Endocardium-to-coronary artery differentiation during heart development and regeneration involves sequential roles of Bmp2 and Cxcl12/Cxcr4.** *Developmental cell*
  D'Amato, G., Phansalkar, R., Naftaly, J. A., Fan, X., Amir, Z. A., Rios Coronado, P. E., Cowley, D. O., Quinn, K. E., Sharma, B., Caron, K. M., Vigilante, A., Red-Horse, K.
  2022
- **Blood flow modeling reveals improved collateral artery performance during the regenerative period in mammalian hearts.** *Nature cardiovascular research*
  Anbazhakan, S., Rios Coronado, P. E., Sy-Quia, A. N., Seow, L. W., Hands, A. M., Zhao, M., Dong, M. L., Pfaller, M. R., Amir, Z. A., Raftrey, B. C., Cook, C. K., D'Amato, G., Fan, et al
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