Stanford

Francisco Galdos

- Affiliate, Department Funds
- Resident in Pediatrics

Bio

INSTITUTE AFFILIATIONS

- Member (Student), Cardiovascular Institute

HONORS AND AWARDS

- Jacob Goldfield Scholarship, Harvard University (2011 - 2015)
- Amgens Scholars Fellowship, Amgen Scholars Program (2013)
- Detur Book Prize, Harvard University (2013)
- Herschel Smith Harvard Undergraduate Research Fellowship, Harvard University (2014)
- Dorothy Dee and Marjorie Helena Boring Trust iHeart Research Award, Stanford Cardiovascular Institute (2016)
- Stanford Society of Physician Scholars Research Award, The Stanford Society of Physician Scholars (2016)
- Ruth L. Krischstein Predoctoral NRSA F30, National Institutes of Health (2016 - 2021)
- Harold M. Weintraub Graduate Student Award, Fred Hutch Cancer Center (2023)

PROFESSIONAL EDUCATION

- Ph.D, Stanford University , Stem Cell and Regenerative Biology (2022)
- M.D., Stanford University , Medicine (2024)
- B.A., Harvard University , Human Developmental and Regenerative Biology (2015)

Research & Scholarship

LAB AFFILIATIONS

- Sean Wu (3/1/2015)

Publications

PUBLICATIONS

- **Benchmarking cell type and gene set annotation by large language models with AnnDictionary.** *Nature communications*
  Crowley, G., Quake, S. R.
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- **IGFBP2 Mediates Human iPSC-Cardiomyocyte Proliferation in a Cellular Contact-Dependent Manner.** *Circulation research*
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- **IGFBP2 Regulates Human IPSC-Derived Cardiomyocyte Proliferation Beyond Contact Inhibition**
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- **Cardiac Development at a Single-Cell Resolution.** *Advances in experimental medicine and biology*
  Wei, N., Lee, C., Duan, L., Galdos, F. X., Samad, T., Raissadati, A., Goodyer, W. R., Wu, S. M.
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- **Cardiac ACTN2 enhancer regulates cardiometabolism and maturation.** *Nature cardiovascular research*
  Galdos, F. X., Lee, C., Wu, S. M.
  2024; 3 (6): 616-618

- **Cardiac ACTN2 enhancer regulates cardiometabolism and maturation** *NATURE CARDIOVASCULAR RESEARCH*
  Galdos, F. X., Lee, C., Wu, S. M.
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- **Modeling hiPSC-to-Early Cardiomyocyte Differentiation Process using Microsimulation and Markov Chain Models**
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- **Combined lineage tracing and scRNA-seq reveals unexpected first heart field predominance of human iPSC differentiation.** *eLife*
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- **The Role of Single-Cell Profiling and Deep Immunophenotyping in Understanding Immune Therapy Cardiotoxicity.** *JACC. CardioOncology*
  Huang, Y. V., Waliany, S., Lee, D., Galdos, F. X., Witteles, R. M., Neal, J. W., Fan, A. C., Maecker, H. T., Nguyen, P. K., Wu, S. M., Zhu, H.
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- **devCellPy is a machine learning-enabled pipeline for automated annotation of complex multilayered single-cell transcriptomic data.** *Nature communications*
  Galdos, F. X., Xu, S., Goodyer, W. R., Duan, L., Huang, Y. V., Lee, S., Zhu, H., Lee, C., Wei, N., Lee, D., Wu, S. M.
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- **In vivo visualization and molecular targeting of the cardiac conduction system.** *The Journal of clinical investigation*
  Goodyer, W. R., Beyersdorf, B. M., Duan, L., van den Berg, N. S., Mantri, S., Galdos, F. X., Puluca, N., Buikema, J. W., Lee, S., Salmi, D., Robinson, E. R., Rogalla, S., Cogan, et al
  2022

- **Identification of Pathogenic Immune Cell Subsets Associated With Checkpoint Inhibitor-Induced Myocarditis.** *Circulation*
  Zhu, H., Galdos, F. X., Lee, D., Waliany, S., Vivian Huang, Y., Ryan, J., Dang, K., Neal, J. W., Wakelee, H. A., Reddy, S. A., Srinivas, S., Lin, L. L., Witteles, et al
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- **The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.** *Science (New York, N.Y.)*
  Jones, R. C., Karkanias, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaup, B., Brown, P., Harper, W., Hemenez, M., Ponnusamy, R., Salehi, et al
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- **Publisher Correction: Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
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- **Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
  Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanias, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaup, B., Brown, P., et al
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- **The Role of Single-Cell Profiling and Deep Immunophenotyping in Understanding Immune Therapy Cardiotoxicity** *JACC: CardioOncology*
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- **CRISPR/Cas9-based targeting of fluorescent reporters to human iPSCs to isolate atrial and ventricular-specific cardiomyocytes.** *Scientific reports*
  Chirikian, O., Goodyer, W. R., Dzilic, E., Serpooshan, V., Buikema, J. W., McKeithan, W., Wu, H., Li, G., Lee, S., Merk, M., Galdos, F., Beck, A., Ribeiro, et al
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- **Purification of Pluripotent Stem Cell-Derived Cardiomyocytes Using CRISPR/Cas9-Mediated Integration of Fluorescent Reporters.** *Methods in molecular biology (Clifton, N.J.)*
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- **Single-cell Transcriptomic Analysis Reveals Developmentally Impaired Endocardial Population in Hypoplastic Left Heart Syndrome**
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- **Intrinsic Endocardial Defects Contribute to Hypoplastic Left Heart Syndrome.** *Cell stem cell*
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- **Immune Profiling and Causal Antigen Discovery in Mouse and Human Models of Immune Checkpoint Inhibitor-induced Myocarditis**
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  Buikema, J. W., Lee, S. n., Goodyer, W. R., Maas, R. G., Chirikian, O. n., Li, G. n., Miao, Y. n., Paige, S. L., Lee, D. n., Wu, H. n., Paik, D. T., Rhee, S. n., Tian, et al
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- **Levitating Cells to Sort the Fit and the Fat.** *Advanced biosystems*
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- **Single-Cell Delineation of Who's on First and Second Heart Fields During Development** *CIRCULATION RESEARCH*
  Galdos, F. X., Wu, S. M.
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- **Single-Cell Delineation of Who's on First and Second Heart Fields During Development.** *Circulation research*
  Galdos, F. X., Wu, S. M.
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- **Cardiac Regeneration Lessons From Development** *CIRCULATION RESEARCH*

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- **Nkx2.5+ Cardiomyoblasts Contribute to Cardiomyogenesis in the Neonatal Heart.** *Scientific reports*

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