

## Zaniar Ghazizadeh

- Affiliate, Department Funds
- Fellow in Medicine - Med/Cardiovascular Medicine

### Bio

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#### BIO

Zaniar is currently a fellow in Clinical Electrophysiology program at Stanford. He completed his Internal Medicine training at Yale School of Medicine and Cardiology fellowship at Stanford. He received his medical degree from Tehran University of Medical Sciences and spent a few years as a post-doctoral fellow at Weill Cornell Medicine and Brigham and Women's Hospital before his residency. His research interest lies in the development of in vitro and in vivo platforms for studying heart regeneration and precision medicine. Zaniar's work is focused on identifying the mechanisms of cardiac arrhythmias using several experimental systems ranging from genetically engineered animal models to human pluripotent stem cell derived cardiac cell types. His ultimate goal as a clinician-scientist is to utilize this framework for drug discovery and identifying new therapeutic strategies that can prevent or reverse specific arrhythmias.

#### CLINICAL FOCUS

- Fellow
- Cardiology
- Clinical Electrophysiology

#### INSTITUTE AFFILIATIONS

- Member (Postdoc), Cardiovascular Institute

#### HONORS AND AWARDS

- Reaven outstanding basic science award, Stanford Medicine, Division of Cardiovascular Medicine (2024)
- F32 NRSA fellowship award, NHLBI (National Institutes of Health) (2023)
- Postdoctoral fellowship award, American Heart Association (2023)
- ACC.23 Heart Tank best scientific proposal award, American College of Cardiology (2023)
- Merit abstract award, International Society for Stem Cell Research (2020)
- Young Investigator Award, finalist, American College of Cardiology (2020)
- Louis N. and Arnold M. Katz basic research prize, finalist, American Heart Association (2019)

#### PROFESSIONAL EDUCATION

- Clinical Fellowship, Stanford Cardiovascular Medicine training Program (2024)
- Residency, Yale Internal Medicine Residency Program
- MD, Tehran University of Medical Sciences

#### PATENTS

- Zaniar Ghazizadeh. "United States Compositions and methods for generation of sinoatrial node-like cells and their use in drug discovery"

- Zanier Ghazizadeh. "United States Stem Cell-Derived Human Schwann Cells, Methods of Making and Methods of Uses"

## Publications

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### PUBLICATIONS

- **Arrhythmia Substrates Accessible from the Aortic Root and Immediate Sub-aortic Areas: Mapping and Ablation.** *Heart rhythm*  
John, R. M., Ghazizadeh, Z., Ceresnak, S. R.  
2026
- **A deep learning phenome wide association study of the electrocardiogram.** *European heart journal. Digital health*  
Hughes, J. W., Theurer, J., Vukadinovic, M., Rogers, A. J., Somani, S., Kang, G., Ghazizadeh, Z., O'Sullivan, J. W., Jain, S. S., Gomes, B., Salerno, M., Ashley, E., Zou, et al  
2025; 6 (4): 595-607
- **Engrafted nitroergic neurons derived from hPSCs improve gut dysmotility in mice.** *Nature*  
Majd, H., Samuel, R. M., Cesiulis, A., Ramirez, J. T., Kalantari, A., Barber, K., Farahvashi, S., Ghazizadeh, Z., Majd, A., Chemel, A. K., Richter, M. N., Das, S., Bendrick, et al  
2025
- **A deep learning phenome wide association study of the electrocardiogram** *EUROPEAN HEART JOURNAL - DIGITAL HEALTH*  
Hughes, J., Theurer, J., Vukadinovic, M., Rogers, A. J., Somani, S., Kang, G., Ghazizadeh, Z., O'Sullivan, J. W., Jain, S. S., Gomes, B., Salerno, M., Ashley, E., Zou, et al  
2025
- **Combined GWAS and single cell transcriptomics uncover the underlying genes and cell types in disorders of gut-brain interaction.** *medRxiv : the preprint server for health sciences*  
Majd, A., Richter, M. N., Samuel, R. M., Cesiulis, A., Ghazizadeh, Z., Wang, J., Fattahi, F.  
2023
- **Tyrosine kinase inhibitor-associated ventricular arrhythmias: a case series and review of literature.** *Journal of interventional cardiac electrophysiology : an international journal of arrhythmias and pacing*  
Fazal, M., Wei, C., Chuy, K. L., Hussain, K., Gomez, S. E., Ba, S. S., Pietrasik, G., Yadav, N., Ghazizadeh, Z., Kapoor, R., Witteles, R. M., Blackmon, A., Wang, et al  
2022
- **A dual SHOX2:GFP; MYH6:mCherry knockin hESC reporter line for derivation of human SAN-like cells.** *iScience*  
Ghazizadeh, Z., Zhu, J., Fattahi, F., Tang, A., Sun, X., Amin, S., Tsai, S. Y., Khalaj, M., Zhou, T., Samuel, R. M., Zhang, T., Ortega, F. A., Gordillo, et al  
2022; 25 (4): 104153
- **Relation of Cardiovascular Risk Factors to Mortality and Cardiovascular Events in Hospitalized Patients With Coronavirus Disease 2019 (from the Yale COVID-19 Cardiovascular Registry).** *The American journal of cardiology*  
Pareek, M., Singh, A., Vadlamani, L., Eder, M., Pacor, J., Park, J., Ghazizadeh, Z., Heard, A., Cruz-Solbes, A. S., Nikooie, R., Gier, C., Ahmed, Z. V., Freeman, et al  
2021; 146: 99-106
- **Androgen Signaling Regulates SARS-CoV-2 Receptor Levels and Is Associated with Severe COVID-19 Symptoms in Men.** *Cell stem cell*  
Samuel, R. M., Majd, H., Richter, M. N., Ghazizadeh, Z., Zekavat, S. M., Navickas, A., Ramirez, J. T., Asgharian, H., Simoneau, C. R., Bonser, L. R., Koh, K. D., Garcia-Knight, M., Tassetto, et al  
2020; 27 (6): 876-889.e12
- **A human embryonic stem cell reporter line for monitoring chemical-induced cardiotoxicity.** *Cardiovascular research*  
Tsai, S. Y., Ghazizadeh, Z., Wang, H. J., Amin, S., Ortega, F. A., Badiyan, Z. S., Hsu, Z. T., Gordillo, M., Kumar, R., Christini, D. J., Evans, T., Chen, S.  
2020; 116 (3): 658-670
- **Metastable Atrial State Underlies the Primary Genetic Substrate for MYL4 Mutation-Associated Atrial Fibrillation.** *Circulation*  
Ghazizadeh, Z., Kiviniemi, T., Olafsson, S., Plotnick, D., Beerens, M. E., Zhang, K., Gillon, L., Steinbaugh, M. J., Barrera, V., Sui, S. H., Werdich, A. A., Kapur, S., Eranti, et al  
2020; 141 (4): 301-312

- **A hPSC-based platform to discover gene-environment interactions that impact human  $\beta$ -cell and dopamine neuron survival.** *Nature communications*  
Zhou, T., Kim, T. W., Chong, C. N., Tan, L., Amin, S., Sadat Badieyan, Z., Mukherjee, S., Ghazizadeh, Z., Zeng, H., Guo, M., Crespo, M., Zhang, T., Kenyon, et al  
2018; 9 (1): 4815
- **Discovery of a drug candidate for GLIS3-associated diabetes.** *Nature communications*  
Amin, S., Cook, B., Zhou, T., Ghazizadeh, Z., Lis, R., Zhang, T., Khalaj, M., Crespo, M., Perera, M., Xiang, J. Z., Zhu, Z., Tomishima, M., Liu, et al  
2018; 9 (1): 2681
- **ROCKII inhibition promotes the maturation of human pancreatic beta-like cells.** *Nature communications*  
Ghazizadeh, Z., Kao, D. I., Amin, S., Cook, B., Rao, S., Zhou, T., Zhang, T., Xiang, Z., Kenyon, R., Kaymakcalan, O., Liu, C., Evans, T., Chen, et al  
2017; 8 (1): 298