

Zaniar Ghazizadeh

- Postdoctoral Medical Fellow, Cardiovascular Medicine
- Fellow in Medicine

Bio

BIO

Zaniar completed his Internal Medicine training at Yale New Haven Hospital/Yale School of Medicine. 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

INSTITUTE AFFILIATIONS

- Member (Postdoc), Cardiovascular Institute

HONORS AND AWARDS

- 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

- Doctor of Medicine, Tehran University of Medical Sciences (2014)
- Residency, Yale Internal Medicine Residency Program
- MD, Tehran University of Medical Sciences

PATENTS

- Zaniar Ghazizadeh. "United States Stem Cell-Derived Human Schwann Cells, Methods of Making and Methods of Uses"
- Zaniar Ghazizadeh. "United States Methods for the Diagnosis and Therapy of Atrial Fibrillation"
- Zaniar Ghazizadeh. "United States Compositions and methods for generation of sinoatrial node-like cells and their use in drug discovery"

Publications

PUBLICATIONS

- **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., Badiéyan, 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 #-cell and dopamine neuron survival.** *Nature communications*
Zhou, T., Kim, T. W., Chong, C. N., Tan, L., Amin, S., Sadat Badiéyan, 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