



Xiaozhi Gao

Postdoctoral Scholar, Cardiovascular Institute

Bio

PROFESSIONAL EDUCATION

- Bachelor of Science, Rose-Hulman Institute Of Technology (2016)
- Doctor of Philosophy, Mayo Graduate School (2024)
- PhD, Mayo Clinic Graduate School of Biomedical Sciences , Molecular Pharmacology and Experimental Therapeutics (2024)

STANFORD ADVISORS

- Mark Mercola, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Mark Mercola (7/15/2024)

Publications

PUBLICATIONS

- **Empagliflozin Improves Cardiomyocyte Function in Phospholamban-R14del Cardiomyopathy by Regulating Calcium/Calmodulin-Stimulated Protein Kinase II Activity and Apoptosis.** *Journal of the American Heart Association*
Hnatiuk, A. P., Li, A. W., Vecchi, B. E., Staudt, D. W., Serrano, R., Gao, X., Tran, P. P., Mercola, M.
2025: e042432
- **Clinical Utility of Protein Language Models in Resolution of Variants of Uncertain Significance inKCNQ1, KCNH2, andSCN5ACompared With Patch-Clamp Functional Characterization.** *Circulation. Genomic and precision medicine*
Ye, D., Garmany, R., Martinez-Barrios, E., Gao, X., Neves, R. A., Tester, D. J., Bains, S., Zhou, W., Giudicessi, J. R., Ackerman, M. J.
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- **Multifocal Ectopic Purkinje Premature Contractions due to neutralization of anSCN5ANegative charge: structural insights into the gating pore hypothesis.** *bioRxiv : the preprint server for biology*
Glazer, A. M., Yang, T., Li, B., Page, D., Fouda, M., Wada, Y., Lancaster, M. C., O'Neill, M. J., Muhammad, A., Gao, X., Ackerman, M. J., Sanatani, S., Ruben, et al
2024
- **Temporal Association Between Vaping and Risk of Cardiac Events.** *Mayo Clinic proceedings*
Bains, S., Garmany, R., Neves, R., Giudicessi, J. R., Gao, X., Tester, D. J., Bos, J. M., Ackerman, M. J.
2024; 99 (2): 241-248
- **Injectable contraceptive Depo-Provera induces erratic beating patterns in patient-specific induced pluripotent stem cell-derived cardiomyocytes with long QT syndrome type 2.** *Heart rhythm*
Pinsky, A. M., Gao, X., Bains, S., Kim, C. J., Louradour, J., Odening, K. E., Tester, D. J., Giudicessi, J. R., Ackerman, M. J.

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- **Functional characterization and identification of a therapeutic for a novel SCN5A-F1760C variant causing type 3 long QT syndrome refractory to all guideline-directed therapies.** *Heart rhythm*

Stutzman, M. J., Gao, X., Kim, M., Ye, D., Zhou, W., Tester, D. J., Giudicessi, J. R., Shannon, K., Ackerman, M. J.

2023; 20 (5): 709-717

- **SGK1 inhibition attenuated the action potential duration in patient- and genotype-specific re-engineered heart cells with congenital long QT syndrome.** *Heart rhythm O2*

Kim, M., Das, S., Tester, D. J., Pradhananga, S., Hamrick, S. K., Gao, X., Srinivasan, D., Sager, P. T., Ackerman, M. J.

2023; 4 (4): 268-274

- **A novel functional variant residing outside the SCN5A-encoded Nav1.5 voltage-sensing domain causes multifocal ectopic Purkinje-related premature contractions.** *HeartRhythm case reports*

Gao, X., Ye, D., Zhou, W., Tester, D. J., Ackerman, M. J., Giudicessi, J. R.

2022; 8 (1): 54-59

- **Negligible-Cost and Weekend-Free Chemically Defined Human iPSC Culture.** *Stem cell reports*

Kuo, H. H., Gao, X., DeKeyser, J. M., Fetterman, K. A., Pinheiro, E. A., Weddle, C. J., Fonoudi, H., Orman, M. V., Romero-Tejeda, M., Jouni, M., Blacard, M., Magdy, T., Epting, et al

2020; 14 (2): 256-270