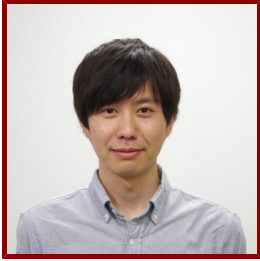


# Stanford

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## Yuta Yamamoto

Instructor, Medicine - Cardiovascular Medicine

### Bio

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#### ACADEMIC APPOINTMENTS

- Instructor, Medicine - Cardiovascular Medicine

#### HONORS AND AWARDS

- Career Development Award, AHA (2024)
- Postdoctoral fellowship, The Uehara Memorial Foundation (2021)
- Research grant, Miyata Cardiac Research Promotion Foundation (2019)
- JHRS Academic Award, Japanese Heart Society (2017)
- JHRS Young Investigator Award, Japanese Heart Society (2017)
- Medical Technology Research Grant, Fukuda Foundation for Medical Technology (2017)
- Research grant, Takeda Science Foundation (2017)
- Basic Cardiovascular Science Best Abstract Award, American Heart Association (2016)

#### PROFESSIONAL EDUCATION

- PhD, Kyoto University , Cardiovascular Medicine (2017)
- DVM, Tokyo University of Agriculture and Technology , Veterinary Medicine (2013)

#### LINKS

- Ashley lab: <https://ashleylab.stanford.edu/>

### Publications

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#### PUBLICATIONS

- **Electrophysiological Analysis of hiPSC-Derived Cardiomyocytes Using a Patch-Clamp Technique.** *Methods in molecular biology (Clifton, N.J.)*  
Yamamoto, Y., Hirose, S., Wuriyanghai, Y., Yoshinaga, D., Makiyama, T.  
2021; 2320: 121-133
- **Allele-specific ablation rescues electrophysiological abnormalities in a human iPS cell model of long-QT syndrome with a CALM2 mutation** *HUMAN MOLECULAR GENETICS*  
Yamamoto, Y., Makiyama, T., Harita, T., Sasaki, K., Wuriyanghai, Y., Hayano, M., Nishiuchi, S., Kohjitani, H., Hirose, S., Chen, J., Yokoi, F., Ishikawa, T., Ohno, et al  
2017; 26 (9): 1670-1677
- **Effects of a Sustained-Release Form of Isosorbide Dinitrate on Left Atrial Pressure in Dogs with Experimentally Induced Mitral Valve Regurgitation** *JOURNAL OF VETERINARY INTERNAL MEDICINE*

Yamamoto, Y., Suzuki, S., Hamabe, L., Aytemiz, D., Huai-Che, H., Kim, S., Yoshiyuki, R., Fukayama, T., Fukushima, R., Tanaka, R.  
2013; 27 (6): 1421-1426

- **Creating an atlas of variant effects to resolve variants of uncertain significance and guide cardiovascular medicine.** *Nature reviews. Cardiology*  
Glazer, A. M., Tabet, D. R., Parikh, V. N., Kroncke, B. M., Cote, A. G., Yamamoto, Y., Wang, Q., Muhammad, A., Lancaster, M. C., O'Neill, M. J., Weile, J., Yang, T., Macrae, et al  
2025
- **Scaled multidimensional assays of variant effect identify sequence-function relationships in hypertrophic cardiomyopathy.** *bioRxiv : the preprint server for biology*  
Yamamoto, Y., Chua, K., Ferrasse, A., Kirilova, A., De Jong, H. N., Floyd, B. J., Cadisch, C., Wiel, L., Wang, Q., O'Neill, M. J., Tabet, D., Staudt, D., Goryznski, et al  
2025
- **Sex-specific clinical course of young patients with Brugada syndrome.** *European heart journal*  
Imamura, T., Makiyama, T., Ozawa, J., Sonoda, K., Kato, K., Aizawa, T., Kashiwa, A., Gao, J., Huang, H., Yamamoto, Y., Kohjitani, H., Aoki, H., Watanabe, et al  
2025
- **Improved Cardiac Performance and Decreased Arrhythmia in Hypertrophic Cardiomyopathy With Non- $\beta$ -Blocking R-Enantiomer Carvedilol.** *Circulation*  
Seo, K., Yamamoto, Y., Kirillova, A., Kawana, M., Yadav, S., Huang, Y., Wang, Q., Lane, K. V., Pruitt, B. L., Perez, M. V., Bernstein, D., Wu, J. C., Wheeler, et al  
2023
- **Novel Calmodulin Variant p.E46K Associated With Severe Catecholaminergic Polymorphic Ventricular Tachycardia Produces Robust Arrhythmogenicity in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes.** *Circulation. Arrhythmia and electrophysiology*  
Gao, J., Makiyama, T., Yamamoto, Y., Kobayashi, T., Aoki, H., Maurissen, T. L., Wuriyanghai, Y., Kashiwa, A., Imamura, T., Aizawa, T., Huang, H., Kohjitani, H., Nishikawa, et al  
2023: e011387
- **Disrupted CaV1.2 selectivity causes overlapping long QT and Brugada syndrome phenotypes in the CACNA1C-E1115K iPS cell model.** *Heart rhythm*  
Kashiwa, A., Makiyama, T., Kohjitani, H., Maurissen, T. L., Ishikawa, T., Yamamoto, Y., Wuriyanghai, Y., Gao, J., Huang, H., Imamura, T., Aizawa, T., Nishikawa, M., Chonabayashi, et al  
2023; 20 (1): 89-99
- **Gradient-based parameter optimization method to determine membrane ionic current composition in human induced pluripotent stem cell-derived cardiomyocytes** *SCIENTIFIC REPORTS*  
Kohjitani, H., Koda, S., Himeno, Y., Makiyama, T., Yamamoto, Y., Yoshinaga, D., Wuriyanghai, Y., Kashiwa, A., Toyoda, F., Zhang, Y., Amano, A., Noma, A., Kimura, et al  
2022; 12 (1): 19110
- **Propranolol Attenuates Late Sodium Current in a Long QT Syndrome Type 3-Human Induced Pluripotent Stem Cell Model** *FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY*  
Hirose, S., Makiyama, T., Melgari, D., Yamamoto, Y., Wuriyanghai, Y., Yokoi, F., Nishiuchi, S., Harita, T., Hayano, M., Kohjitani, H., Gao, J., Kashiwa, A., Nishikawa, et al  
2020; 8: 761
- **Phenotype-Based High-Throughput Classification of Long QT Syndrome Subtypes Using Human Induced Pluripotent Stem Cells** *STEM CELL REPORTS*  
Yoshinaga, D., Baba, S., Makiyama, T., Shibata, H., Hirata, T., Akagi, K., Matsuda, K., Kohjitani, I., Wuriyanghai, Y., Umeda, K., Yamamoto, Y., Conklin, B. R., Horie, et al  
2019; 13 (2): 394-404
- **Clinical Manifestations and Long-Term Mortality in Lamin A/C Mutation Carriers From a Japanese Multicenter Registry** *CIRCULATION JOURNAL*  
Nakajima, K., Aiba, T., Makiyama, T., Nishiuchi, S., Ohno, S., Kato, K., Yamamoto, Y., Doi, T., Shizuta, S., Onoue, K., Yagihara, N., Ishikawa, T., Watanabe, et al  
2018; 82 (11): 2707-+

- **Complex aberrant splicing in the induced pluripotent stem cell-derived cardiomyocytes from a patient with long QT syndrome carrying KCNQ1-A344Aspl mutation** *HEART RHYTHM*  
Wuriyanghai, Y., Makiyama, T., Sasaki, K., Kamakura, T., Yamamoto, Y., Hayano, M., Harita, T., Nishiuchi, S., Chen, J., Kohjitani, H., Hirose, S., Yokoi, F., Gao, et al  
2018; 15 (10): 1566-1574
- **Gene-Based Risk Stratification for Cardiac Disorders in LMNA Mutation Carriers** *CIRCULATION-CARDIOVASCULAR GENETICS*  
Nishiuchi, S., Makiyama, T., Aiba, T., Nakajima, K., Hirose, S., Kohjitani, H., Yamamoto, Y., Harita, T., Hayano, M., Wuriyanghai, Y., Chen, J., Sasaki, K., Yagihara, et al  
2017; 10 (6)
- **Development of a Patient-Derived Induced Pluripotent Stem Cell Model for the Investigation of SCN5A-D1275N-Related Cardiac Sodium Channelopathy** *CIRCULATION JOURNAL*  
Hayano, M., Makiyama, T., Kamakura, T., Watanabe, H., Sasaki, K., Funakoshi, S., Wuriyanghai, Y., Nishiuchi, S., Harita, T., Yamamoto, Y., Kohjitani, H., Hirose, S., Yokoi, et al  
2017; 81 (12): 1783-+
- **Patient-Specific Human Induced Pluripotent Stem Cell Model Assessed with Electrical Pacing Validates S107 as a Potential Therapeutic Agent for Catecholaminergic Polymorphic Ventricular Tachycardia** *PLOS ONE*  
Sasaki, K., Makiyama, T., Yoshida, Y., Wuriyanghai, Y., Kamakura, T., Nishiuchi, S., Hayano, M., Harita, T., Yamamoto, Y., Kohjitani, H., Hirose, S., Chen, J., Kawamura, et al  
2016; 11 (10): e0164795
- **Cardiac sodium channel mutation associated with epinephrine-induced QT prolongation and sinus node dysfunction** *HEART RHYTHM*  
Chen, J., Makiyama, T., Wuriyanghai, Y., Ohno, S., Sasaki, K., Hayano, M., Harita, T., Nishiuchi, S., Yamamoto, Y., Ueyama, T., Shimizu, A., Horie, M., Kimura, et al  
2016; 13 (1): 289-298
- **Comparative effects of amlodipine and benazepril on Left Atrial Pressure in Dogs with experimentally-induced Mitral Valve Regurgitation** *BMC VETERINARY RESEARCH*  
Suzuki, S., Fukushima, R., Ishikawa, T., Yamamoto, Y., Hamabe, L., Kim, S., Yoshiyuki, R., Machida, N., Tanaka, R.  
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