

Stanford



Yuta Yamamoto

Postdoctoral Scholar, Cardiovascular Medicine

Bio

HONORS AND AWARDS

- 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)

STANFORD ADVISORS

- Euan Ashley, Postdoctoral Faculty Sponsor
- Euan Ashley, Postdoctoral Research Mentor

LINKS

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

Publications

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 iPSC 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

- **Improved Cardiac Performance and Decreased Arrhythmia in Hypertrophic Cardiomyopathy With Non-β-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.

2012; 8: 166