

Stanford



Hiroyuki Inoue

Postdoctoral Scholar, Cardiovascular Medicine

Bio

BIO

Dr. Inoue is a physician-scientist who is enthusiastic about bridging research findings and clinical practice.

- a board certified cardiologist with 10+ years clinical experience
- experience in 300+ cases as a main operator in percutaneous coronary intervention, catheter ablation, and cardiac device implantation
- research expertise primarily in iPSCs, genome editing, and regenerative medicine

Dr. Inoue joined the Yang lab in 2022. His research aim is the development of novel regenerative therapeutics for heart failure.

HONORS AND AWARDS

- JSPS Overseas Research Fellow, Japan Society for the Promotion of Science (2023-2025)
- Young Investigator Award, Japanese Circulation Society (2022)
- Young Doctor Award, National Hospital Organization (2015)

PROFESSIONAL EDUCATION

- PhD, Osaka University , Cardiovascular Medicine (2022)
- Board Certification, the Japanese Society of Internal Medicine (2022)
- Board Certification, Japanese Circulation Society (2019)
- MD, Osaka University , Medicine (2011)

STANFORD ADVISORS

- Phillip Yang, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Modeling reduced contractility and impaired desmosome assembly due to plakophilin-2 deficiency using isogenic iPSC cell-derived cardiomyocytes** *STEM CELL REPORTS*
Inoue, H., Nakamura, S., Higo, S., Shiba, M., Kohama, Y., Kondo, T., Kameda, S., Tabata, T., Okuno, S., Ikeda, Y., Li, J., Liu, L., Yamazaki, et al
2022; 17 (2): 337-351
- **Overhanging Bioresorbable Vascular Scaffold Observed on Angioscopy 1 Year After Implantation** *CIRCULATION JOURNAL*
Inoue, H., Okamura, A., Iwamoto, M., Sumiyoshi, A., Tanaka, K., Takayasu, K., Kawamura, K., Koyama, Y., Inoue, K., Iwakura, K., Fujii, K., Sakata, Y., Nagai, et al
2020; 84 (9): 1605

- **Burden and Long Firing of Premature Atrial Contraction Early After Catheter Ablation Predict Late Recurrence of Atrial Fibrillation** *CIRCULATION JOURNAL*
Inoue, H., Tanaka, N., Tanaka, K., Ninomiya, Y., Hirao, Y., Oka, T., Okada, M., Kitagaki, R., Takayasu, K., Koyama, Y., Okamura, A., Iwakura, K., Fujii, et al
2020; 84 (6): 894-901
- **Multiplexed measurement of cell type-specific calcium kinetics using high-content image analysis combined with targeted gene disruption** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Tabata, T., Masumura, Y., Higo, S., Kunimatsu, S., Kameda, S., Inoue, H., Okuno, S., Ogawa, S., Takashima, S., Watanabe, M., Miyagawa, S., Hikoso, S., Sakata, et al
2022; 637: 40-49
- **Human-Induced Pluripotent Stem Cell-Derived Cardiomyocyte Model for TNNT2 #160E-Induced Cardiomyopathy.** *Circulation. Genomic and precision medicine*
Kondo, T., Higo, S., Shiba, M., Kohama, Y., Kameda, S., Tabata, T., Inoue, H., Okuno, S., Ogawa, S., Nakamura, S., Takeda, M., Ito, E., Li, et al
2022; 15 (5): e003522
- **Absence of first-pass isolation is associated with poor pulmonary vein isolation durability and atrial fibrillation ablation outcomes** *JOURNAL OF ARRHYTHMIA*
Ninomiya, Y., Inoue, K., Tanaka, N., Okada, M., Tanaka, K., Onishi, T., Hirao, Y., Oka, T., Inoue, H., Takayasu, K., Nakamaru, R., Kitagaki, R., Koyama, et al
2021; 37 (6): 1468-1476
- **Phenotypic recapitulation and correction of desmoglein-2-deficient cardiomyopathy using human-induced pluripotent stem cell-derived cardiomyocytes** *HUMAN MOLECULAR GENETICS*
Shiba, M., Higo, S., Kondo, T., Li, J., Liu, L., Ikeda, Y., Kohama, Y., Kameda, S., Tabata, T., Inoue, H., Nakamura, S., Takeda, M., Ito, et al
2021; 30 (15): 1384-1397
- **Clinical significance of left ventricular reverse remodeling after catheter ablation of atrial fibrillation in patients with left ventricular systolic dysfunction** *JOURNAL OF CARDIOLOGY*
Okada, M., Tanaka, N., Oka, T., Tanaka, K., Ninomiya, Y., Hirao, Y., Yoshimoto, I., Inoue, H., Kitagaki, R., Onishi, T., Koyama, Y., Okamura, A., Iwakura, et al
2021; 77 (5): 500-508
- **A case of pulseless electrical activity due to takotsubo syndrome following radiofrequency catheter ablation for atrial fibrillation.** *Journal of cardiology cases*
Oka, T., Tanaka, K., Inoue, H., Ninomiya, Y., Tanaka, K., Hirao, Y., Tanaka, N., Okada, M., Takayasu, K., Kitagaki, R., Koyama, Y., Okamura, A., Iwakura, et al
2020; 22 (6): 294-298
- **Adeno-associated virus-mediated gene delivery promotes S-phase entry-independent precise targeted integration in cardiomyocytes** *SCIENTIFIC REPORTS*
Kohama, Y., Higo, S., Masumura, Y., Shiba, M., Kondo, T., Ishizu, T., Higo, T., Nakamura, S., Kameda, S., Tabata, T., Inoue, H., Motooka, D., Okuzaki, et al
2020; 10 (1): 15348
- **Outcomes After Atrial Fibrillation Ablation in Patients With Premature Atrial Contractions Originating From Non-Pulmonary Veins** *JACC-CLINICAL ELECTROPHYSIOLOGY*
Nakamaru, R., Okada, M., Tanaka, N., Tanaka, K., Ninomiya, Y., Hirao, Y., Oka, T., Inoue, H., Takayasu, K., Koyama, Y., Okamura, A., Iwakura, K., Rakugi, et al
2019; 5 (11): 1319-1327
- **Multiple Shifts of the Earliest Retrograde Atrial Activation Site Along the Tricuspid Annulus During the Fast-Slow Form of Atrioventricular Nodal Reentrant Tachycardia by Radiofrequency Modification** *INTERNATIONAL HEART JOURNAL*
Okada, M., Tanaka, K., Matsunaga-Lee, Y., Ninomiya, Y., Hirao, Y., Oka, T., Tanaka, N., Inoue, H., Iwakura, K., Fujii, K., Inoue, K.
2019; 60 (3): 761-767
- **Comparison of the Safety and Efficacy of Automated Annotation-Guided Radiofrequency Ablation and 2nd-Generation Cryoballoon Ablation in Paroxysmal Atrial Fibrillation** *CIRCULATION JOURNAL*
Tanaka, N., Tanaka, K., Ninomiya, Y., Hirao, Y., Oka, T., Okada, M., Inoue, H., Nakamaru, R., Takayasu, K., Kitagaki, R., Koyama, Y., Okamura, A., Iwakura, et al
2019; 83 (3): 548-555
- **Usefulness of Failed Electrical Cardioversion for Early Recurrence After Catheter Ablation for Atrial Fibrillation as a Predictor of Future Recurrence** *AMERICAN JOURNAL OF CARDIOLOGY*
Nakamaru, R., Tanaka, N., Okada, M., Tanaka, K., Ninomiya, Y., Hirao, Y., Oka, T., Inoue, H., Koyama, Y., Okamura, A., Iwakura, K., Rakugi, H., Sakata, et al
2019; 123 (5): 794-800

- **Left Atrial Reverse Remodeling After Catheter Ablation of Nonparoxysmal Atrial Fibrillation in Patients With Heart Failure With Reduced Ejection Fraction** *AMERICAN JOURNAL OF CARDIOLOGY*
Oka, T., Inoue, K., Tanaka, K., Ninomiya, Y., Hirao, Y., Tanaka, N., Okada, M., Inoue, H., Nakamaru, R., Koyama, Y., Okamura, A., Iwakura, K., Sakata, et al
2018; 122 (1): 89-96
- **Efficacy and Safety of Figure-of-Eight Suture for Hemostasis After Radiofrequency Catheter Ablation for Atrial Fibrillation** *CIRCULATION JOURNAL*
Okada, M., Inoue, K., Tanaka, K., Ninomiya, Y., Hirao, Y., Oka, T., Tanaka, N., Inoue, H., Nakamaru, R., Koyama, Y., Okamura, A., Iwakura, K., Sakata, et al
2018; 82 (4): 956-+
- **Automated Ablation Annotation Algorithm Reduces Re-conduction of Isolated Pulmonary Vein and Improves Outcome After Catheter Ablation for Atrial Fibrillation** *CIRCULATION JOURNAL*
Tanaka, N., Inoue, K., Tanaka, K., Toyoshima, Y., Oka, T., Okada, M., Inoue, H., Nakamaru, R., Koyama, Y., Okamura, A., Iwakura, K., Sakata, Y., Fujii, et al
2017; 81 (11): 1596-1602
- **Quantitative Assessment of Fluid Accumulation Using Bioelectrical Impedance Analysis in Patients With Acute Decompensated Heart Failure** *CIRCULATION JOURNAL*
Sakaguchi, T., Yasumura, K., Nishida, H., Inoue, H., Furukawa, T., Shinouchi, K., Miura, H., Miyazaki, K., Hamano, G., Koide, M., Abe, H., Date, M., Hirooka, et al
2015; 79 (12): 2616-2622