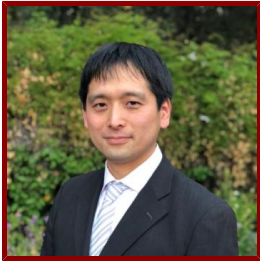


Stanford



Masataka Kawana

Instructor, Medicine - Cardiovascular Medicine

CLINICAL OFFICES

- **Heart Failure Program CV Medicine**

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Bio

BIO

Dr. Kawana joined Advanced Heart Failure and Transplant Cardiology group in 2018 as an Instructor in the Division of Cardiovascular Medicine. He completed his internal medicine, cardiovascular medicine and heart failure training at Stanford. He also completed postdoctoral research fellowship under Dr. James Spudich in Department of Biochemistry. He sees advanced heart failure patients in clinic, and attends on inpatient service taking care of post-heart transplant patients and patients on MCS support. His research interests are in the fundamental mechanism of inherited cardiomyopathies, and he studies the effect of gene mutation on the cardiac sarcomere function using cutting-edge biochemical and biophysical approach, which would lead to development of novel pharmacotherapy that directly modulates cardiac muscle protein.

CLINICAL FOCUS

- Cardiovascular Disease
- Heart Failure
- Heart Transplantation
- Mechanical Circulatory Support
- Left Ventricular Assist Device
- Inherited Cardiomyopathy
- Hypertrophic Cardiomyopathy
- Dilated Cardiomyopathy

ACADEMIC APPOINTMENTS

- Instructor, Medicine - Cardiovascular Medicine

PROFESSIONAL EDUCATION

- Board Certification: Advanced Heart Failure and Transplant Cardiology, American Board of Internal Medicine (2018)
- Residency: Stanford University Internal Medicine Residency (2012) CA

- Board Certification, American Board of Internal Medicine , Advanced Heart Failure and Transplant Cardiology (2018)
- Fellowship: Stanford University Advanced Heart Failure and Transplant Fellowship (2018) CA
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2017)
- Board Certification: Adult Comprehensive Echocardiography, National Board of Echocardiography (2017)
- Fellowship: Stanford University Cardiovascular Medicine Fellowship (2017) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (2012)
- Medical Education: Warren Alpert Medical School Brown University (2009) RI
- Fellow, Stanford University Medical Center , Advanced Heart Failure and Transplant Cardiology (2018)
- Fellow, Stanford University Medical Center , Cardiovascular Medicine (2017)
- Postdoctoral Fellow, Stanford University School of Medicine , Biochemistry (2015)
- Resident, Stanford University Medical Center , Internal Medicine (2012)
- MD, Brown University , Medicine (2009)

Publications

PUBLICATIONS

- **Interpreting the evidence from tolvaptan clinical trials.** *Journal of cardiology*
Tanaka, T., Kawana, M., Kohsaka, S.
2019
- **Physical therapy in successful venoarterial extracorporeal membrane oxygenation bridge to orthotopic heart transplantation.** *Journal of cardiac surgery*
Rinewalt, D., Shudo, Y., Kawana, M., Woo, Y. J.
2019
- **Dilated cardiomyopathy myosin mutants have reduced force-generating capacity** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Ujfalusi, Z., Vera, C. D., Mijailovich, S. M., Svcevic, M., Yu, E., Kawana, M., Ruppel, K. M., Spudich, J. A., Geeves, M. A., Leinwand, L. A.
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- **Controlling load-dependent kinetics of beta-cardiac myosin at the single-molecule level.** *Nature structural & molecular biology*
Liu, C., Kawana, M., Song, D., Ruppel, K. M., Spudich, J. A.
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- **Controlling Cardiac Contractility at the Single Molecule Level**
Liu, C., Song, D. L., Kawana, M., Ruppel, K. M., Spudich, J. A.
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- **Biophysical properties of human β -cardiac myosin with converter mutations that cause hypertrophic cardiomyopathy.** *Science advances*
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2017; 3 (2)
- **Acute Right Ventricular Failure After Successful Opening of Chronic Total Occlusion in Right Coronary Artery Caused by a Large Intramural Hematoma.** *Circulation. Cardiovascular interventions*
Kawana, M., Lee, A. M., Liang, D. H., Yeung, A. C.
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- **Effects of hypertrophic and dilated cardiomyopathy mutations on power output by human β -cardiac myosin.** *The Journal of experimental biology*
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- **Effects of hypertrophic and dilated cardiomyopathy mutations on power output by human beta-cardiac myosin** *JOURNAL OF EXPERIMENTAL BIOLOGY*
Spudich, J. A., Aksel, T., Bartholomew, S. R., Nag, S., Kawana, M., Yu, E. C., Sarkar, S. S., Sung, J., Sommese, R. F., Sutton, S., Cho, C., Adhikari, A. S., Taylor, et al

2016; 219 (2): 161-167

- **Understanding the Effects of Cardiomyopathy Causing Mutations on Human Beta Cardiac Myosin Biomechanical Function**
Nag, S., Sommese, R., Sung, J., Choe, E., Kawana, M., Cho, C., Taylor, R., Liu, C., Sutton, S., Ruppel, K., Spudich, J.
CELL PRESS.2014: 156A
- **Improved Loaded In Vitro Motility Assay and Actin Filament Tracking Software Delineates the Effect of Hypertrophic and Dilated Cardiomyopathy Mutations on the Power Output of Cardiac Myosin**
Aksel, T., Kawana, M., Adhikari, A., Sutton, S., Ruppel, K., Spudich, J.
CELL PRESS.2014: 562A
- **Quantification of gene transcripts with deep sequencing analysis of gene expression (DSAGE) using 1 to 2 µg total RNA.** *Current protocols in molecular biology*
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- **Heterogeneous myocyte enhancer factor-2 (Mef2) activation in myocytes predicts focal scarring in hypertrophic cardiomyopathy** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Konno, T., Chen, D., Wang, L., Wakimoto, H., Teekakirikul, P., Nayor, M., Kawana, M., Eminaga, S., Gorham, J. M., Pandya, K., Smithies, O., Naya, F. J., Olson, et al
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- **Endogenous regulation of cardiovascular function by apelin-APJ** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
Charo, D. N., Ho, M., Fajardo, G., Kawana, M., Kundu, R. K., Sheikh, A. Y., Finsterbach, T. P., Leeper, N. J., Ernst, K. V., Chen, M. M., Ho, Y. D., Chun, H. J., Bernstein, et al
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- **PTC124 targets genetic disorders caused by nonsense mutations** *NATURE*
Welch, E. M., Barton, E. R., Zhuo, J., Tomizawa, Y., Friesen, W. J., Trifillis, P., Paushkin, S., Patel, M., Trotta, C. R., Hwang, S., Wilde, R. G., Karp, G., Takasugi, et al
2007; 447 (7140): 87–U6
- **Systemic administration of L-arginine benefits mdx skeletal muscle function** *MUSCLE & NERVE*
Barton, E. R., Morris, L., Kawana, M., Bish, L. T., Torsel, T.
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- **gamma-sarcoglycan deficiency increases cell contractility, apoptosis and MAPK pathway activation but does not affect adhesion** *JOURNAL OF CELL SCIENCE*
Griffin, M. A., Feng, H. S., Tewari, M., Acosta, P., Kawana, M., Sweeney, H. L., Discher, D. E.
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