



Masataka Nishiga

Postdoctoral Research Fellow, Cardiovascular Institute

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Kyoto University (2017)
- Cardiology fellowship, Tenri Hospital, Nara, Japan (2012)
- Residency, Tenri Hospital, Nara, Japan (2009)
- Doctor of Medicine, Kyoto University (2007)

STANFORD ADVISORS

- Joseph Wu, Postdoctoral Faculty Sponsor

LINKS

- Wu lab: <http://med.stanford.edu/wulab.html>

Publications

PUBLICATIONS

- **Hepatokine alpha1-Microglobulin Signaling Exacerbates Inflammation and Disturbs Fibrotic Repair in Mouse Myocardial Infarction.** *Scientific reports* Hakuno, D., Kimura, M., Ito, S., Satoh, J., Nakashima, Y., Horie, T., Kuwabara, Y., Nishiga, M., Ide, Y., Baba, O., Nishi, H., Nakao, T., Nishino, et al 2018; 8 (1): 16749
- **SREBF1/MicroRNA-33b Axis Exhibits Potent Effect on Unstable Atherosclerotic Plaque Formation In Vivo** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY* Nishino, T., Horie, T., Baba, O., Sowa, N., Hanada, R., Kuwabara, Y., Nakao, T., Nishiga, M., Nishi, H., Nakashima, Y., Nakazeki, F., Ide, Y., Koyama, et al 2018; 38 (10): 2460–73
- **Circulating markers of collagen types I, III, and IV in patients with dilated cardiomyopathy: relationships with myocardial collagen expression.** *ESC heart failure* Nagao, K., Inada, T., Tamura, A., Kajitani, K., Shimamura, K., Yukawa, H., Aida, K., Sowa, N., Nishiga, M., Horie, T., Makita, T., Ono, K., Tanaka, et al 2018
- **Loss of periostin ameliorates adipose tissue inflammation and fibrosis in vivo.** *Scientific reports* Nakazeki, F., Nishiga, M., Horie, T., Nishi, H., Nakashima, Y., Baba, O., Kuwabara, Y., Nishino, T., Nakao, T., Ide, Y., Koyama, S., Kimura, M., Tsuji, et al 2018; 8 (1): 8553
- **MicroRNA-33 regulates the population of peripheral inflammatory Ly6Chigh monocytes through dual pathways.** *Molecular and cellular biology* Baba, O., Horie, T., Nakao, T., Hakuno, D., Nakashima, Y., Nishi, H., Kuwabara, Y., Nishiga, M., Nishino, T., Ide, Y., Nakazeki, F., Koyama, S., Kimura, et al 2018
- **Induced pluripotent stem cells as a biopharmaceutical factory for extracellular vesicles.** *European heart journal* Nishiga, M., Guo, H., Wu, J. C.

2018

- **Dynamic changes of serum microRNA-122-5p through therapeutic courses indicates amelioration of acute liver injury accompanied by acute cardiac decompensation.** *ESC heart failure*
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- **MicroRNA-33 Controls Adaptive Fibrotic Response in the Remodeling Heart by Preserving Lipid Raft Cholesterol** *CIRCULATION RESEARCH*
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2017; 120 (5): 835-847
- **Prevention of neointimal formation using miRNA-126-containing nanoparticle-conjugated stents in a rabbit model** *PLOS ONE*
Izuhara, M., Kuwabara, Y., Saito, N., Yamamoto, E., Hakuno, D., Nakashima, Y., Horie, T., Baba, O., Nishiga, M., Nakao, T., Nishino, T., Nakazeki, F., Ide, et al
2017; 12 (3)
- **Genetic Ablation of MicroRNA-33 Attenuates Inflammation and Abdominal Aortic Aneurysm Formation via Several Anti-Inflammatory Pathways.** *Arteriosclerosis, thrombosis, and vascular biology*
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- **Predictors of Rapid Progression and Clinical Outcome of Asymptomatic Severe Aortic Stenosis** *CIRCULATION JOURNAL*
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2016; 80 (8): 1863-1869
- **Prognostic Significance of ST-Segment Elevation in Leads V1-2 in Patients With Severe Aortic Stenosis** *CIRCULATION JOURNAL*
Taniguchi, T., Shiomi, H., Kosuge, M., Morimoto, T., Nakatsuma, K., Nishiga, M., Sasa, T., Saito, N., Kimura, T.
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- **Expression Patterns of miRNA-423-5p in the Serum and Pericardial Fluid in Patients Undergoing Cardiac Surgery** *PLOS ONE*
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2015; 10 (11)
- **Acute myocardial infarction and 30-year coronary aneurysm follow-up by serial angiography in a young adult with Kawasaki disease.** *Cardiovascular intervention and therapeutics*
Matsushita, K., Tamura, T., Nishiga, M., Kaitani, K., Izumi, C., Nakagawa, Y.
2015; 30 (2): 142-146
- **MicroRNA-451 Exacerbates Lipotoxicity in Cardiac Myocytes and High-Fat Diet-Induced Cardiac Hypertrophy in Mice Through Suppression of the LKB1/AMPK Pathway** *CIRCULATION RESEARCH*
Kuwabara, Y., Horie, T., Baba, O., Watanabe, S., Nishiga, M., Usami, S., Izuhara, M., Nakao, T., Nishino, T., Otsu, K., Kita, T., Kimura, T., Ono, et al
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- **MicroRNA-33b knock-in mice for an intron of sterol regulatory element-binding factor 1 (Srebf1) exhibit reduced HDL-C in vivo** *SCIENTIFIC REPORTS*
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- **MicroRNA-33 regulates sterol regulatory element-binding protein 1 expression in mice** *NATURE COMMUNICATIONS*
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- **Effects of Medical Treatment on the Prognosis and Risk of Embolic Events in Patients with Severe Aortic Plaque** *JOURNAL OF ATHEROSCLEROSIS AND THROMBOSIS*
Nishiga, M., Izumi, C., Matsutani, H., Hashiwada, S., Takahashi, S., Hayama, Y., Nakajima, S., Sakamoto, J., Hanazawa, K., Miyake, M., Tamura, T., Kondo, H., Motooka, et al
2013; 20 (11): 821-829
- **A case of significantly increased mitral regurgitation early after atrial septal defect closure.** *Journal of echocardiography*
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- **Progression of Isolated Tricuspid Regurgitation Late After Left-Sided Valve Surgery - Clinical Features and Mechanisms** *CIRCULATION JOURNAL*
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- **Cardiac tamponade during transesophageal echocardiography in a patient with infective endocarditis.** *Journal of echocardiography*
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