Masaki leda

Masaki leda M.D., Ph.D.

Professor and Chair, Department of Cardiology,

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Education

2005 Ph.D.	Doctor of Medical Science	Department of Medicine.	Keio University
2005 FII.D.	Ductor of Medical Science	, Department of Medicine.	, Meio Olliveisii

School of Medicine, Tokyo, Japan

1995 M.D. Keio University School of Medicine, Tokyo, Japan

Experience

<u>Experience</u>	
2018-Present	Professor and Chair, Department of Cardiology, Faculty of Medicine, University of Tsukuba
2010-2018	Associate Professor, Department of Cardiology, Keio University School of Medicine
2010-2016	Research Director, Japan Science and Technology Agency (JST) - CREST
2007-2010	Postdoctoral Fellow , Gladstone Institute of Cardiovascular Disease, University of California, San Francisco, USA
2005-2007	Instructor , Cardiopulmonary Division, Department of Medicine, Keio University School of Medicine
1999-2005	Clinical and Research Fellow , Cardiopulmonary Division, Department of Medicine, Keio University School of Medicine,
1997-1999	Clinical Fellow, Internal Medicine, Ashikaga Red-Cross Hospital and Saiseikai Utsunomiya Hospital, Tochigi, Japan
1995-1997	Resident, Internal Medicine, Keio University School of Medicine,

Awards

The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology

Awards for Science and Technology, 2020

The Japanese Heart Failure Society

Outstanding Investigator Award, 2017

The Japanese Circulation Society

Sato's Award, 2016

Cardiovascular Regeneration Medical Science Award, 2011

Yagi's Award, 2007

Young Investigator's Award, 2006

The Japan Society for the Promotion of Science

JSPS PRIZE, 2012

Keio University School of Medicine

Sanshikai Kitazato Award, 2012

Sanshikai Award for Young Investigator, 2009

The Japanese Society for Regenerative Medicine

The Johnson & Johnson Innovation Award, 2011

The Japan Medical Association

Medical Research Encouragement Prize, 2011

American Heart Association.

Louis N. & Arnold M. Katz Young Investigator Award, 2008

Selected Publications

- Muraoka N, Nara K, Tamura F, ,,, <u>leda M</u>. Role of cyclooxygenase-2-mediated prostaglandin E2-prostaglandin E receptor 4 signaling in cardiac reprogramming. *Nat Commun.* 10(1):674, 2019.
- 2. Sadahiro T, Isomi M, Muraoka N,,, <u>leda M</u>. Tbx6 Induces Nascent Mesoderm from Pluripotent Stem Cells and Temporally Controls Cardiac versus Somite Lineage Diversification. *Cell Stem Cell*. 23(3):382-395, 2018.
- Miyamoto K, Akiyama M, Tamura F,,, <u>leda M</u>. Direct In Vivo Reprogramming with Sendai Virus Vectors Improves Cardiac Function after Myocardial Infarction. *Cell* Stem Cell. 22(1):91-103, 2018.
- **4.** Yamakawa H, Muraoka N, Miyamoto K,,, <u>leda M</u>. Fibroblast Growth Factors and Vascular Endothelial Growth Factor Promote Cardiac Reprogramming under Defined Conditions. *Stem Cell Reports.* 5(6):1128-42, 2015.
- **5.** Sadahiro T, Yamanaka S, <u>leda M</u>. Direct Cardiac Reprogramming: Progress and Challenges in Basic Biology and Clinical Applications. *Circ Res.* 116(8):1378-1391, 2015.
- **6.** Muraoka N, I<u>eda M</u>. Stoichiometry of transcription factors is critical for cardiac reprogramming. *Circ Res.* 116(2):216-8, 2015.
- 7. Muraoka N, Yamakawa H, Miyamoto K,,, <u>leda M.</u> MiR-133 promotes cardiac reprogramming by directly repressing Snai1 and silencing fibroblast signatures. *EMBO J.* 33(14):1565-81 2014.
- **8.** Wada R, Muraoka N, Inagawa K,, <u>leda M.</u> Induction of human cardiomyocyte-like cells from fibroblasts by defined factors. *PNAS*. 110 (31):12667-72. 2013
- **9.** Inagawa K, Miyamoto K, Yamakawa H,,,, and <u>leda, M</u>. Induction of Cardiomyocyte-like Cells in Infarct Hearts by Gene Transfer of Gata4, Mef2c, and Tbx5. *Circ Res* 2012.
- **10.** Srivastava, D. and <u>leda, M.</u> Critical factors for cardiac reprogramming. *Circ Res* 111:5-8: 2012.
- **11.** <u>leda, M.</u>, Fu, J.D., Delgado-Olguin, P., Vedantham, V., Hayashi, Y., Bruneau, B.G., and Srivastava, D. Direct Reprogramming of Fibroblasts into Functional Cardiomyocytes by Defined Factors. *Cell* 142:375-386. 2010.
- **12.** <u>leda, M.</u>, Tsuchihashi, T., Ivey, K.N., Ross, R.S., Hong, T.T., Shaw, R.M., and Srivastava, D. Cardiac fibroblasts regulate myocardial proliferation through beta1 integrin signaling. *Dev Cell* 16:233-244. 2009.
- **13.** <u>leda, M.</u>, Kanazawa, H., Kimura, K., ,, Fukuda, K. Sema3a maintains normal heart rhythm through sympathetic innervation patterning. *Nat Med* 13:604-612. 2007.
- **14.** <u>leda, M.</u>, Kanazawa, H., leda, Y., Kimura, K., Matsumura, K.,, Fukuda, K. Nerve growth factor is critical for cardiac sensory innervation and rescues neuropathy in diabetic hearts. *Circulation* 114:2351-2363. 2006.
- **15.** <u>leda, M.</u>, Fukuda, K., Hisaka, Y., Kimura, K., Kawaguchi, H.,, Ogawa S. Endothelin-1 regulates cardiac sympathetic innervation in the rodent heart by controlling nerve growth factor expression. *J Clin Invest* 113:876-884. 2004.