

The President's Lecture

In October 2004, the International Council created a new distinguished lecture, named The President's Lecture, which is a highlight of ISHR World Congresses and Section meetings.

The President's Lecture is held at each World Congress of the ISHR and, in non-Congress years, at the annual meeting of one of the 3 largest ISHR Sections on a rotating basis. This lecture is intended to be a high profile event and is scheduled as a keynote plenary lecture. The International Council selects the speaker. **The topic of the lecture is in the field of molecular biology, genetics, genomics or proteomics, but the content should be chosen to be of broad interest to the cardiovascular community.** The speaker is reimbursed for travel expenses, and receives a plaque and a \$1,000 honorarium. A photograph and biosketch of the speaker is published in *Heart News and Views*, and is posted in the ISHR website.

The President's Lecture enhances the content of the ISHR scientific meetings by providing a high-quality presentation in a topical area that is not covered by other distinguished lecture awards, and reflects the continuing growth of the ISHR as a professional Society. This award is funded by a generous donation from **Roberto Bolli, MD**, Winner of the ISHR 2004 Research Achievement Award, who declined to collect the monetary prize associated with the Award and requested that it be used for this purpose.



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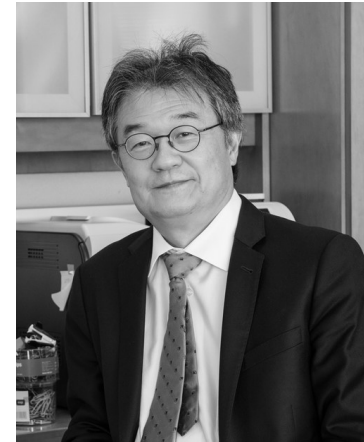
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ISHR

International Society for Heart Research

The President's Lecture 2017



Honored Speaker

**Junichi Sadoshima,
M.D. , Ph.D.**

**“The Molecular Mechanisms
of Mitochondrial Degradation
in the Stressed Heart”**

2017 Honored Speaker

Junichi Sadoshima, MD, PhD Osaka, Japan

Dr Sadoshima was born in Fukuoka, Japan. He graduated from Kyushu University School of Medicine and received his MD/PhD in 1990. After he completed introductory training in clinical cardiology under the direction of Professor Motoomi Nakamura and training in basic science in the area of electrophysiology under the direction of Professor Norio Akaike at Kyushu University, he received postdoctoral training in the field of molecular cardiology under the direction of Professor Seigo Izumo at Beth Israel Hospital, Boston, Harvard Medical School. He then became a fully independent scientist at the New Jersey Medical School in 2000. He is currently Professor and Chair of the Department of Cell Biology and Molecular Medicine at Rutgers New Jersey Medical School and Executive Director of the Cardiovascular Institute. He is an expert in the molecular signaling mechanisms of cardiomyocytes during heart failure and myocardial ischemia. His research has been supported by multiple NIH R01 grants since 2000.

Dr Sadoshima has published over 280 papers focusing on the molecular mechanisms of heart failure with a focus on signaling mechanisms, including the Hippo pathway and autophagic mechanisms. His group discovered that mammalian sterile 20-like kinase 1 (Mst1), a major component of the

Hippo pathway, plays an important role in mediating myocardial cell death in the heart during stress (*JCI* 2003). His group also found that oxidation of conserved cysteine residues induces nuclear exit of class II histone deacetylases, thereby inducing pathological hypertrophy (*Cell* 2008). His group also demonstrated that Mst1 phosphorylates Beclin 1, a key regulator of autophagy, and stimulates interaction between Beclin 1 and Bcl-2, thereby suppressing autophagy in the heart (*Nat Med* 2013). Most recently, he has shown that removal of damaged mitochondria by autophagy is suppressed during pressure overload and this contributes to the development of heart failure (*Circulation* 2016). All these achievements significantly contributed to our better understanding of the molecular mechanisms of cardiac disease.

Dr Sadoshima received first prize for the American Heart Association (AHA)'s Louis N and Arnold M Katz Basic Research Prize award competition for young investigators (1995); first prize at the AHA Cardiovascular Research Prize competition (2001); the ISHR's Janice Pfeffer Distinguished Lecture Award (2010); the AHA's Thomas Smith Memorial Lecture Award (2014); and the AHA Basic Cardiovascular Science (BCVS) Distinguished Achievement Award (2017). He co-organized the annual BCVS meeting, a major meeting for basic cardiology, in 2011, and organized a Keystone symposium entitled "Mitochondria, metabolism and heart" in May 2017. He has been a member of the American Society of Clinical Investigation since 2002. He sits on the editorial board of scientific journals, including the *Journal of Clinical Investigation*, *Circulation Research*, *Autophagy*, *Journal of Molecular Cellular*

Cardiology, and the *American Journal of Physiology -- Heart and Circulatory Physiology*. He has been serving on NIH study sections since 1999. He has been the North American Coordinator of the Fondation Leducq Transatlantic Network focusing on the role of autophagy in the heart since 2016.

Dr Sadoshima dedicates himself to the training of young scientists and his trainees have received numerous awards, including the Katz Basic Research Prize awards (2008 and 2013) and Melvin L Marcus Young Investigator awards (2003 and 2013) from the AHA.

Previous Award Winners.....

- Thomas Eschenhagen, MD:** Buenos Aires 2016
- Rui-Ping Xiao, MD, PhD:** Bordeaux, France 2015
- Keiichi Fukuda, MD, PhD:** Miami, FL 2014
- Richard N. Kitsis, MD:** San Diego, CA 2013
- Steven Houser, PhD:** Fukuoka, Japan 2012
- Sian Harding, PhD:** Haifa, Israel 2011
- Issei Komuro, MD, PhD:** Kyoto, Japan 2010
- R John Solaro, PhD:** Baltimore, MD 2009
- Gerd Hasenfuss, MD:** Yokohama, Japan 2008
- Jeffrey Robbins, PhD:** Bologna, Italy 2007
- Mark Sussman, PhD:** Toronto, ON 2006