

Janice M. Pfeffer, Ph.D.

1943-2001

The Janice M. Pfeffer Lectureship recognizes the scientific contributions of one of the pioneers in the field of cardiac remodeling. Born in Rockford, Illinois on October 31, 1943, Janice Marie Sikorski graduated with honors from Rockford College. There she studied with a lab partner named Marc Pfeffer, who shared her passion for integrative physiology. Janice and Marc became inseparable not only as husband and wife, but also as collaborators in integrative physiology. Janice M. Pfeffer was awarded her Ph.D. in Physiology and Biophysics from the University of Oklahoma, where she studied under Dr. Edward D. Frohlich. Her doctoral thesis, "Longitudinal Changes in Cardiac Function and Geometry During the Development of Left Ventricular Hypertrophy in the Spontaneously Hypertensive Rat," became a classic study on the role of cardiac hypertrophy and left ventricular remodeling. She continued her studies as a post-doctoral fellow in Dr. Eugene Braunwald's laboratory at the Peter Bent Brigham Hospital, Harvard Medical School. There she demonstrated that progressive ventricular enlargement, "ventricular remodeling", occurs following a myocardial infarction, and that this process continues long after the histologic resolution within the infarct zone. Her landmark study, "Influence of Chronic Captopril Therapy on the Infarcted Left Ventricle of the Rat", definitively demonstrated that ventricular enlargement was attenuated by angiotensin converting enzyme inhibitors, and that favorable alterations in ventricular remodeling in the animal model were associated with improved cardiac performance and prolonged survival. These pioneering animal studies introduced the concept of ventricular remodeling as a potential therapeutic target, and subsequently served as the basis for the landmark clinical trial, Survival and Ventricular Enlargement (SAVE), which showed that long-term treatment with an angiotensin converting enzyme inhibitor (captopril) prevented cardiac remodeling and resulted in improved clinical outcomes in humans. Based upon the results of this seminal translational study, angiotensin converting enzyme inhibitors have become one of the mainstays of therapy for the treatment of myocardial infarction.

In addition to being a meticulous and thoughtful scientist, Janice M. Pfeffer was a devoted mother and wife, who serves as a role model for countless women scientists. The intent of the Janice M. Pfeffer Lectureship is to acknowledge not only the latest insights and advances in the field of cardiac remodeling, but also to remember the remarkable personal and professional qualities that were emblematic of Dr. Janice M. Pfeffer.

About the Award...

Each year, the International Council selects a speaker to deliver the Pfeffer Distinguished Lecture at the World Congress or at the annual section meeting of one of the three largest ISHR Sections. The purpose of this lecture is to honor the memory of Dr. Pfeffer and to recognize her contributions to cardiovascular research. The topic of the lecture must be in the field of remodeling, heart failure and/or hypertrophy. The speaker receives a plaque and \$1,000. honorarium in addition to travel expenses.



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ISHR

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The Janice Pfeffer Distinguished Lecture 2016



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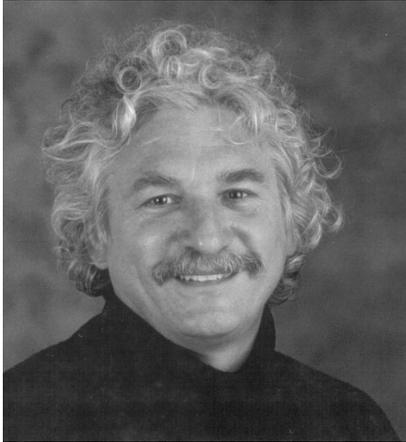
Honored Speaker:

Edward Lakatta, MD

"The Heartbreak of Aging Viewed from the Angiotensin II-remodeled Arterial Wall"

2016 Honored Speaker

Edward Lakatta, M.D. Buenos Aires, Argentina



Dr. Lakatta was awarded an MD degree Magna cum Laude at Georgetown University School of Medicine. He completed an internship and residency in Internal Medicine at Strong Memorial Hospital of the University of

Rochester, and a Cardiology Fellowship at Georgetown and Johns Hopkins University Hospitals. Following this he spent two years in research training at the National Institutes of Health and an additional year at in the Department of Physiology, University College, London England. Following his training in medicine and research Dr. Lakatta founded and directs the Laboratory of Cardiovascular Science in the Intramural Research Program of the National Institute on Aging, National Institutes of Health. He also is an adjunct Professor in the Department of Physiology, University of Maryland School of Medicine, and the Cardiology Division, Johns Hopkins School of Medicine.

Dr. Lakatta has made a sustained 30-plus-year commitment to a broad-based research career. His studies range from molecules to humans, including translation of novel findings into the clinical realm. The overall goals of his research program are 1) to identify age associated changes that occur within the cardio-

vascular system and to determine the mechanisms for these changes; 2) to determine how aging of the heart and vasculature interacts with chronic disease states to enhance the risk for CV diseases in older persons; 3) to study basic mechanisms in excitation-contraction coupling and how these are modulated by surface receptor signaling pathways in cardiac cells; 4) to elucidate mechanisms of pacemaker activity in sinoatrial nodal cells; 5) to elucidate mechanisms that govern cardiac and vascular cell survival; 6) to establish the potentials and limitations of new therapeutic approaches such as changes in lifestyle, novel pharmacologic agents or gene or stem cell transfer techniques in aging or disease states.

Dr. Lakatta is recognized as both nationally and internationally as an expert in cardiovascular research. He has authored over 450 original publications in top peer-reviewed cardiovascular journals, written over 250 invited reviews/book chapters, and delivered over 450 invited lectures. He is a member of multiple scholarly societies and journal editorial boards. Based upon his accomplishments, Dr. Lakatta has received numerous awards, among which are the Allied Signal Career Achievement Award in Aging, the Novartis Prize in Gerontology, the Irving Wright Award of Distinction of the American Federation for Aging Research (AFAR), the Frank J. O'Hara Alumni Award from the University of Scranton, and the Distinguished Leader Award of the International Society of Heart Research (ISHR).

Previous Award Winners...

2015: Kinya Otsu, M.D., Ph.D.

2014: Joan Heller Brown, Ph.D.

2013: Michael Marber, MB.BS, PhD, FRCP

2012: Daria Mochly-Rosen, Ph.D.

2011: Thomas M Force, M.D.

2010: Junichi Sadoshima, M.D., Ph.D.

2009: Donald M. Bers, Ph.D.

2008: Howard Rockman, M.D.

2007: Joanne S. Ingwall, Ph.D.

2006: Evangelia Kranias, Ph.D.

2005: Edward D. Frohlich, M.D.

2004: David Kass, M.D.

2003: Piero Anversa, M.D.

This award is funded by generous contributions from Bristol Myers Squibb, Hoffman-LaRoche, AstraZeneca, Scios and the Michael and Keri Whalen Foundation.