

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 American Section meeting. 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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The Janice Pfeffer Distinguished Lecture 2007



Honored Speaker

Joanne S. Ingwall, Ph.D.

**"ENERGETICS OF THE
FAILING HEART:**

New Tools Yield New Insights"

Joanne S. Ingwall, Ph.D.

2007 Honored Speaker

Bologna, Italy



Dr. Ingwall obtained her Ph.D. in biophysical chemistry from the Chemistry Department at Cornell University, where she was the first to define the physico-chemical properties of a blood clotting protein. As a postdoctoral fellow at the Cardiovascular Research

Institute at UCSF and Stanford Medical School, she extended her interest in protein chemistry to the control of muscle protein synthesis in differentiating skeletal muscle cells in culture, a project that earned her the third Louis Katz Award for Young Investigators from the AHA. Her initial faculty level appointment was in the Cardiology Division of the Department of Medicine at UCSD. She was recruited to the (then) Peter Bent Brigham Hospital in 1977, and has risen through the ranks from assistant to full professor. Her current major research interest is cardiac energetics using hearts of transgenic mice designed to mimic specific molecular defects known to occur in ischemia and heart failure. She is a pioneer in the use of magnetic resonance spectroscopy to study cardiac energetics and function.

Dr. Ingwall has held many positions of leadership in professional organizations including the International Society for Magnetic Resonance (board member and president), the International Society for Heart Research, American Section (board member and 2 terms as treasurer),

the American Heart Association (basic science councilor, co-organizer of the first meeting on the molecular biology of the heart, AHA program committee member and chairman of exhibits, contributing author to the *AHA Mentoring Handbook*), and the Stanley J. Sarnoff Endowment for Cardiovascular Research (board member and all office positions). In 2001, she received the Distinguished Service Award from the International Society for Magnetic Resonance in Medicine.

Dr. Ingwall's commitment to faculty development is well recognized. Since 1997, she has served as the co-chair of the Research Career Development Committee of the BWH Research Council. The goal of this committee is to develop programs providing career guidance and skills enhancement for the research community at the hospital, with a focus on junior faculty and fellows. This work was acknowledged by awarding its co-chairs the John MacArthur Research Service Award at BWH, in 1999. Also, in what was most likely a unique experiment, Dr. Ingwall served as Faculty Development Coordinator in the Department of Radiology at the Beth Israel Deaconess Medical Center, matching a Ph.D. scientist with clinical faculty. Expanding on these experiences, Dr. Ingwall became the first director of the Office for Faculty Development at the Beth Israel Deaconess Medical Center. She has also served as Partners Health-Care System consultant for Ph.D. Career Development where she oversaw a multi-faceted program focused on issues specific to Ph.D.'s working in a hospital setting. Dr. Ingwall is now Vice Chair for Faculty Development in the Department of Medicine at Brigham and Women's Hospital. In recognition of her long-term commitment to mentoring faculty and students, Dr. Ingwall received the 2000 A. Clifford Barger Excellence in Mentoring Award from Harvard Medical School.

Previous Award Winners...

Evangelia Kranias, Ph.D.

Toronto, Canada: 2006

"The Orchestra of SR Calcium Players:
Who is the Conductor?"



Edward D. Frohlich, M.D.

New Orleans, LA: 2005

"Left Ventricular Hypertrophy:
An Adaptive Cardiac Response with
Multifactorial Risks"



David Kass, M.D.

Brisbane, Australia: 2004

"Cardiac Dysynchrony and
Resynchronization: From Bench to
Bedside"



Piero Anversa, M.D.

Mystic, Connecticut: 2003

"Myocardial Regeneration in
Heart Failure"

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