

2012 American Physiological Society Conference

Autonomic Regulation of Cardiovascular Function in Health and Disease

DEADLINES

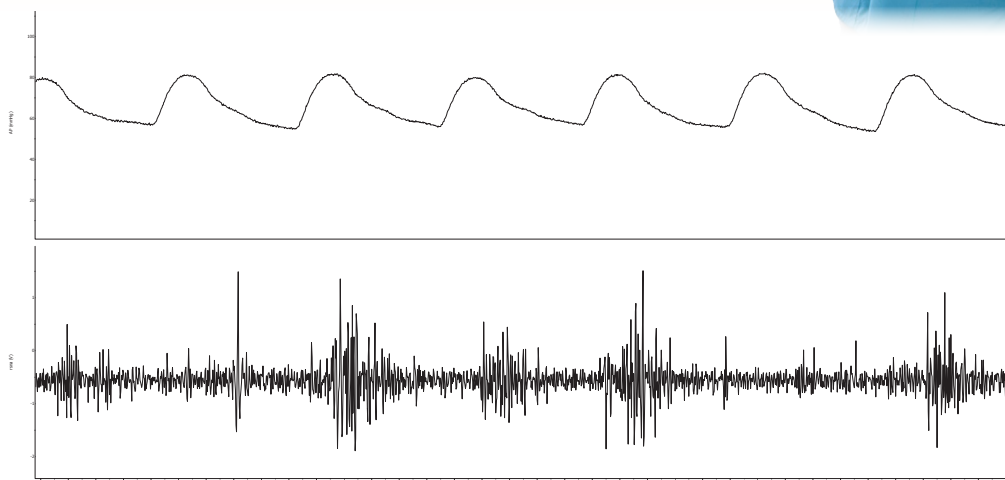
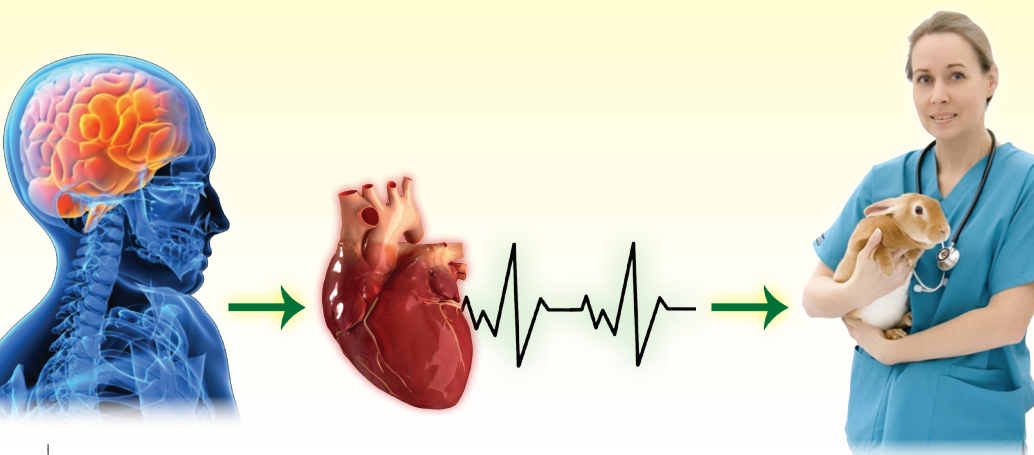
Abstract: **March 30, 2012**

Advance Registration: **June 8, 2012**

Housing: **June 9, 2012**

LOCATION & DATE

Hilton Omaha
Omaha, Nebraska
July 7-10, 2012





2012 APS Conference: Autonomic Regulation of Cardiovascular Function in Health and Disease

July 7-10, 2012 • Hilton Omaha • Omaha, Nebraska

PURPOSE OF MEETING:

The purpose of this Conference is to provide a scientific forum for the exchange of ideas and the presentation of the most recent data on the regulation of sympathetic nerve activity in health and disease. Specific focus will be placed on disorders that have been characterized as involving abnormalities in sympathetic regulation. There will also be an integrative approach to understanding sympathetic regulation and will incorporate genetic, molecular, cellular, and whole animal approaches to the topics covered.

DEADLINES:

Abstract: **March 30, 2012**

Advance Registration: **June 8, 2012**

Housing: **June 9, 2012**

LOCATION: Omaha, Nebraska



Merging Midwestern hospitality with the energy and liveliness of a city, Omaha has something for everyone. Attractions include the Strategic Air and Space Museum, the largest indoor rainforest at Omaha's Henry Doorly Zoo, and the Heartland of America Park with its 300-foot high fountain and evening light show. Walk through the Old Market with its 80-plus shops and 30 pubs and restaurants. Listen to the Jazz on the Green concert series located at Midtown Crossing. Visit the Gerald R. Ford Birth Site and Gardens, a memorial to the 38th President who was born in Omaha. The activities are endless in this exciting town.

Omaha, Nebraska is easily accessible via the Eppley Airfield which is located 5 miles from downtown. Temperatures in this area during July usually range from the mid 60's to upper 80's making the outdoors ideal for all types of activities.

For more information on Omaha, Nebraska visit www.visitomaha.com.

ORGANIZING COMMITTEE:

Irving Zucker, PhD (Chair)

University of Nebraska Medical Center

Kaushik Patel, PhD (Co-Chair)

University of Nebraska Medical Center

Harold Schultz, PhD

University of Nebraska Medical Center

Michael Joyner, MD

The Mayo Clinic

For more information or to register,
visit: <http://bit.ly/AutoConference> or scan this code





2012 APS Conference: Autonomic Regulation of Cardiovascular Function in Health and Disease

July 7-10, 2012 • Hilton Omaha • Omaha, Nebraska

PRELIMINARY PROGRAM:

Plenary Lectures:

- Advances in the Central Renin-angiotensin System
Speaker: Curt Sigmund, PhD
- Central Mediators of Sympathetic Outflow in Hypertension and Heart Failure
Speaker: Frans Leenen, MD, PhD
- Muscle Sympathetic Reflexes in Humans
Speaker: Lawrence Sinoway, MD

Session I: **Angiotensin Converting Enzyme 2 and ANG (1-7): Roles in Central Hypertension**

Chairs: Irving Zucker, PhD and Lie Gao, MD, PhD

- Brain Angiotensin Peptides and Control of Blood Pressure
Speaker: Debra Diz, PhD
- ACE2 Regulation in Hypertension
Speaker: Eric Lazartigues, PhD

Session II: **Oxidative Stress and Sympathetic Regulation**

Chairs: Karla Haack and Erin Rosenbaugh

- Oxidative Stress-associated Signals in Regulation of Sympathetic Activity and Blood Pressure
Speaker: Julie Chan, PhD
- Nanoformulated Antioxidants: Delivery to Central Neurons and Modulation of Angiotensin II Intra-neuronal Signaling
Speaker: Matthew Zimmerman, PhD

Session III: **Mechanisms of Baro and Chemoreceptor Sensory Transduction: A Link to Sympatho-excitation in Disease**

Chairs: Rodrigo Del Rio, PhD and Noah Marcus, PhD

- Sensory Neuronal Signals are Powerful Regulators of the Hypertensive State
Speaker: François Abboud, MD
- Hydrogen Sulphide (H₂S) Mediates Hypoxic Sensing by the Carotid Body
Speaker: Nanduri Prabhakar, PhD, D.Sc

Session IV: **Sympatho-excitatory Mechanisms in Cardiovascular Disease**

Chairs: Kaushik Patel, PhD and Hong Zheng, MD

- Psychogenic Cardiovascular Disease-neural Mechanisms
Speaker: Murray Esler, MD, PhD
- Role of Inflammatory Cells in the Progression of Cardiovascular Disease
Speaker: Joseph Francis, PhD

Session V: **Sympathetic Mechanisms in Human Hypertension**

Chair: Amit Mitra, PhD

- Impaired Autonomic Regulation of Blood Pressure and Hypertension
Speaker: Italo Biagioni, MD
- Acute and Chronic Orthostatic Intolerance, Maladaptive Autonomic Regulation
Speaker: Julian Stewart, MD, PhD

Session VI: **The "Gladiator" Session**

Chairs: Mohan Raizada, PhD and Mark Chappleau, PhD

Session VII: **Nitric Oxide and Sympatho-vagal Regulation**

Chairs: Yu-Long Li, MD, PhD and Mark Chappleau, PhD

- Targeting Cyclic Nucleotides to Rescue Cardiac Sympatho Vagal Phenotypes in Cardiovascular Disease
Speaker: David Paterson, PhD
- The Blood Brain Barrier and Control of Arterial Pressure
Speaker: Julian Paton, PhD

Session VIII: **Device Therapy for Hypertension and Heart Failure**

Chairs: T. Paul Tran, MD and Julian Stewart, MD, PhD

- Mechanisms for Lowering of Blood Pressure by Prolonged Activation of the Baroreflex: Relevance to Resistant Hypertension
Speaker: Thomas Lohmeier, PhD
- When the Levee Breaks: Sympathetic Control of Splanchnic Vessels Leading to Acute Heart Failure
Speaker: Mark Dunlap, MD
- Beyond BP Reduction, Clinical Implications of Renal Denervation
Speaker: Paul Sobotka, MD

For more information or to register,
visit: <http://bit.ly/AutoConference> or scan this code

