

Experimental Biology

Experimental Biology 2018 Distinguished Lectures



Physiology in Perspective: The Walter B. Cannon Memorial Award Lecture

Ole H. Petersen

Cardiff University

The Roles of Ca²⁺ and ATP in Pancreatic Physiology and Pathophysiology

Sunday, April 22, 2018, 5:30 PM

Supported by Sucampo



Henry Pickering Bowditch Memorial Award

Yatrik M. Shah

University of Michigan

Oxygen Sensing Pathways: A Critical Link Between Inflammation and Cancer

Monday, April 23, 2017, 5:30 PM



Robert M. Berne Distinguished Lectureship of the APS Cardiovascular Section

Jason Yuan

University of Arizona Health Sciences

Mechanisms of Pulmonary Vascular Disease: Pathogenic Role of Ion Channels

Tuesday, April 24, 2018, 3:30 PM



Hugh Davson Distinguished Lectureship of the APS Cell and Molecular Physiology Section

Paul Quinton

University of California, San Diego

Confessions of a Long-Term Extra-Marital Affair with Bicarb

Sunday, April 22, 2018, 3:30 PM



Joseph Erlanger Distinguished Lectureship of the APS Central Nervous System Section

Wolfram Schultz

University of Cambridge

Getting the Best Reward: Neuronal Mechanisms for Utility Maximisation

Monday, April 23, 2018, 3:30 PM



August Krogh Distinguished Lectureship of the APS Comparative and Evolutionary Physiology Section

Stanley S. Hillman

Portland State University

Anuran Amphibians as Models for Understanding Extreme Dehydration Tolerance

Tuesday, April 24, 2018, 3:30 PM

Supported by Novo Nordisk Fonden



Solomon Berson Distinguished Lectureship of the APS Endocrinology and Metabolism Section

Erik A. Richter

August Krogh Institute

The BIG story: the Beautiful, Integrative, Glucose Metabolism and Exercise

Monday, April 23, 2018, 3:30 PM



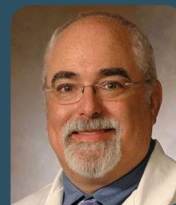
Edward F. Adolph Distinguished Lectureship of the APS Environmental and Exercise Physiology Section

David Poole

Kansas State University College of Veterinary Medicine

Muscle Microcirculation: Gateway to Function and Dysfunction

Monday, April 23, 2018, 1:30 PM



Horace W. Davenport Distinguished Lectureship of the APS Gastrointestinal and Liver Physiology Section

Jerrold R. Turner

Brigham and Women's Hospital

Mucosal Barriers: Pathways and Pathologies

Tuesday, April 24, 2018, 3:30 PM



**History of
Physiology Group
Lecture**

Peter B. Raven

University of North Texas Health
Science Center

*Bengt Saltin, MD, DSci (1935–
2014): Exercise is Medicine*

Tuesday, April 24, 2018, 1:00 PM



**Carl Ludwig
Distinguished
Lectureship of the
APS Neural Control
and Autonomic
Regulation Section**

David Paterson

University of Oxford

*Heart Meets Brain: Brain Meets
Heart: Therapeutic Opportunities*

Monday, April 23, 2018, 1:30 PM



**Carl W. Gottschalk
Distinguished
Lectureship of the
APS Renal Section**

Lisa M. Satlin

Icahn School of Medicine at
Mount Sinai

*In the Flow: Cell-Specific Expression
and Regulation of BK Channels in
the Distal Nephron*

Monday, April 23, 2018, 3:30 PM



**Julius H. Comroe,
Jr. Distinguished
Lectureship of the
APS Respiration
Section**

Bert Forster

Medical College of Wisconsin

*Interdependence of Neuromodulators
in the Control of Breathing*

Tuesday, April 24, 2018, 3:30 PM



**Claude Bernard Distin-
guished Lectureship
of the APS Teaching
of Physiology Section**

Jenny L. McFarland

Edmonds Community College

*Transformations – Paths to
Student-Centered, Evidence-Based
Physiology Education*

Sunday, April 22, 2018, 3:30 PM

Supported by ADInstruments



**Ernest H. Starling
Distinguished
Lectureship of the
Water and Electro-
lyte Homeostasis
Section**

David L. Mattson

Medical College of Wisconsin

*Diet, Inflammation and
Hypertension*

Sunday, April 22, 2018, 3:30 PM



APS Nobel Prize Award Lecture

Leland Hartwell

The Biodesign Institute, Arizona State University

Wednesday, April 25, 2018, 3:30 PM