



**April 18<sup>th</sup> – 22<sup>nd</sup>, 2009**

**Central Nervous System Social**  
**Monday, April 20<sup>th</sup>, 5:30-7:00 PM**  
**Hilton Riverside**

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**2009 Erlanger Distinguished Lectureship  
of the Central Nervous System Section**



**Jeffrey Friedman, MD PhD**  
**The Rockefeller University**  
**HHMI Investigator**

**“Leptin and the Homeostatic  
Control of Energy Balance”**

**Monday, April 20<sup>th</sup>**  
**2 PM – 3 PM**  
**Room 252-254**

## 2009 Henry Pickering Bowditch Award



Ann Schreihof, PhD  
Department of Physiology,  
Medical College of Georgia

**“Cardiovascular Regulation by the  
Caudal Ventrolateral Medulla:  
The Little Nucleus that Could”**

Sunday, April 19<sup>th</sup> 5:45-6:45 PM

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## ***CNS Sponsored Symposia and Featured Topics***

### ***Featured Topic***

***“Emerging Signaling Mechanisms in CNS  
Transmission and Plasticity”***

Chair: Javier E. Stern

Speaker: Jeffrey G. Tasker

Time: Sunday, April 19<sup>th</sup> 10:30AM-12:30PM

Room 245

***“Control of Breathing in Chronic Diseases”***

Chair: Lara DeRuisseau & Francis Golder

Speaker: David D. Fuller, Francis Golder

Time: Monday April 20<sup>th</sup>, 10:30AM-12:30PM

Room 245

### ***Symposia***

***“Development of AMPA Receptor-  
Containing Synapses in the CNS”***

Chair: Declan Ali & Lu-Yang Wang

Speakers: Andres Villu Maricq, Declan Ali,  
Lu-Yang Wang, Hollis Cline

Time: Wednesday April 22<sup>nd</sup>, 8:00-10:00 AM

Room 245

## ***Other Featured Topics and Symposia of Interest***

### **Sunday April 19<sup>th</sup>**

- **“Direct Assessment Of Organ Specific Sympathetic Nervous System Activity In Normal And Cardiovascular Disease States”** Chairs: Drs. Mark Knuepfer & John Osborn, 8-10 AM, Room 252-254
- **“New Functions of the Dorsomedial Hypothalamus: Thermoregulation and Beyond”**  
**Chair:** Andrej A. Romanovsky, Shaun F. Morrison, 10:30AM – 12:30 PM, Room 240-241
- **“The Ganglionic Synapse: Passive Relay Or Locus Of Autonomic Control?”** Chairs: Drs. Robin McAllen & Mark Chapleau, 3:15-5:15 PM, Room 235/236

### **Monday April 20<sup>th</sup>**

- **Carl Ludwig Distinguished Lectureship of the APS Neural Control & Autonomic Regulation Section: “Autonomic Dysregulation Of Blood Pressure: High & Low”** by Dr. Murray Esler, 8-9 AM, Room 252-254
- **“Autonomic Mechanisms Of Hypertension: Reversal Of Pathophysiology & Blood Pressure Lowering With Therapeutic Devices”** Chair: Dr. Murray Esler, 9-10 AM, Room 252-254
- **“Cardiorespiratory Afferent Processing in the NTS: Not Just a Relay”** Chairs: Drs. Donald McCrimmon and Judith Neubauer, 3:15 – 5:15 PM, Room 244

### **Tuesday April 21<sup>st</sup>**

- **“NCAR Trainee Topic Category”** Chairs: Drs. Allison Kleiber and Andrea Betchtold, 8-10 AM, Room 245
- **"Donald Reis Memorial Trainee Symposium – Metabolic Defects in Diabetes, Obesity, and Heart Failure"** Chair: Dr. Steven Jones, Featured Speakers: Jenny Duncan and Sihem Boudina, 10:30 AM - 12:30 PM, Room 238
- **“Adrenal Corticosteroid Effects in the CNS on the Long-Term Control of Blood Pressure”** Chair: Dr. Debbie Scheuer, 3:15-5:15 PM, Room 252-254

### **Wednesday April 22<sup>nd</sup>**

- **“Neuroplasticity Of Autonomic Behavior In Health And Disease”** Chairs: Drs. Benedito Machado and Nanduri Prabakhar, 8-10 AM, Room 239

## ***Congratulations to Our 2009 Experimental Biology Award Winners!!***

***New Investigator Award*** – Rebecca Johnson, Dept Surgical Sciences, University of Michigan

***Van Harreveld Award*** – Megan Bardgett, Dept Physiology, University of Kentucky

***Research Recognition Award***

- **Qing-Hui Chen**, Dept Physiology, University of Texas HSC at San Antonio
- **Erin Keen-Rhinehart**, Dept Obstetrics and Gynecology, Harbor UCLA Med Ctr
- **Huijing Xia**, Dept Pharmacology, LSU HSC

**Come meet our award winners and speakers at the CNS Social  
Monday April 20<sup>th</sup>, 5:30-7:00 PM Hilton Riverside**

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## **Participate in Planning Future APS Meetings**

- Experimental Biology 2010 will be held April 24-28 in Anaheim, CA
- Experimental Biology 2011 will be held April 9-13 in Washington, DC

Planning is already underway for these meetings. Your help is needed to generate meetings of high interest to CNS Section Members. If you have any suggestions for the Joseph Erlanger Distinguished Lecturer, Symposia, or Featured Topics, contact Javier Stern, Department of Physiology, Medical College of Georgia (email: [jsstern@mcg.edu](mailto:jsstern@mcg.edu)).

If you would like to propose a Featured Topic or Symposia, please see the following website:

<http://www.the-aps.org/meetings/eb.htm>

### ***Welcome New CNS Section Members!!!***

**Regular Members:** Carlos Aizenman, Kurt Aherns, Carlo DeLuca, Andrei Derbenev, Jos Eggermont, Shelley Fried, Robert Friedman, Emilio Garrido Sanabria, Cecile Gallea, Geoffrey Ghose, Hiroaki Gomi, Aaron Gruber, Michael Hammer, Maged Harraz, Mitra Hartmann, Espen Hartveit, Alexander Huk, David Johnson, Allan Kalueff, Munish Kumar, Kun-Ze Lee, Mark Lehmkuhle, Christian Lemon, Christopher Lowry, Chao Ma, Roberto Martuzzi, Dervla O'Malley, Takafumi Minaminoto, David Ostry, Denis Pare, Hae Jeong Park, Stefan Pulver, Josef Rauschecker, Marcie Roche, Per Roland, Michael Rowe, Agnes Savigner, Eiji Shigetomi, Andrew Smith, Ann Stowe, Qian-Quan Sun, Kelly Suter, Christos Theleritis, Elizabeth Tietz, Joseph Travers, Stylianos Tsakiris, Matt Wachowiak, Josh Wallman, Karin Westlund High, Patrick Whelan, Gagan Wig, Newton Woo, Jack Yamuy, Ming Zhang

**Student Members:** Elsa Baena, Stephen Bakos, Christopher Cottingham, Sarah Dougherty, Lenka Hruba, Robert Lin, Jingyi Liu, Nai Hong Liu, Ardalan Minokadeth, Brent Myers, Matthew Nelson, Juan Rodriguez-Barrantes, Barbora Schutova, Jenna Stangland, Jose Torres, Bianca Torres-Hernandez, Lindsey Vedder, Moran Weinberger, Thomas Younts

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## **Where Love Begins: In the Brain**

We usually associate love with the heart, but as recent studies show, love is very much in our heads. In Episode 18 of the APS podcast, *Life Lines*, Lucy Brown of the Albert Einstein School of Medicine describes her studies using fMRI imaging to show what romantic love looks like in the brain. She has investigated various stages of love: falling in love; rejection (unhappily in love); and longterm love. Listen to this free podcast: Where Love Begins: In the Brain online at <http://www.lifelines.tv>.

## **Do you want to organize an APS Conference?**

### **APS Conference Committee**

Sean D. Stocker, CNS Representative

The process has now been simplified and streamlined!!! APS has recently established the APS Conference Committee whose purpose is to facilitate, improve, and energize APS Conferences. Please check out the new website (<http://www.the-aps.org/committees/conference/>). The website includes instructions, the application procedures (just a few paragraphs), and other meeting details. Application deadlines are April 1, August 1, and December 1. Anyone who is a member of APS can submit an application for an APS Conference. For more information please contact: P. Darwin Bell, Chair at [BellPD@MUSC.EDU](mailto:BellPD@MUSC.EDU) or Linda Allen: APS Representative at: [LAllen@The-APS.ORG](mailto:LAllen@The-APS.ORG)

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### **Trainee Advisory Committee (TAC)**

Lara DeRuisseau, CNS Representative

[Deruislr@lemoyne.edu](mailto:Deruislr@lemoyne.edu)

The APS Trainee Advisory Committee now has a presence on Facebook! If you would like to join our group, search “APS Trainees” on Facebook. We post updates about the Trainee Advisory Committee as well as other important information for trainees (awards, career planning, families and science, funding sources, laboratory management, mentoring, science policy). Please tell other trainees you know, including undergraduates about our new page on Facebook. Be on the lookout for our Spring Trainee Newsletter, which includes all trainee relevant sessions at EB. This Newsletter is a fantastic resource to bring with you to EB! It will be sent out through the Trainee Listserv, so be sure to join if you have not already. To join, sign-in to the “members only” section of the APS webpage. After signing in, the listserv is listed as a choice on the bottom of the page. Just click “subscribe”!

The Trainee Advisory Committee has just announced Rudy Ortiz as the Early Career Professional Service Awardee for 2009! Information about Rudy’s exceptional contributions to the physiology community can be viewed at <http://www.the-aps.org/awards/society/ECawardee.htm> He will be writing an article for *The Physiologist* about his professional service in the upcoming months. More information about this new APS award is available at: <http://www.the-aps.org/awards/society/earlycareer.htm>

**APS Liaison With Industry Committee (LWIC)**

Michael Finley, Section Representative

The APS LWIC is sponsoring a Symposium at EB 09 entitled "**Molecular Imaging of Physiological Processes in Drug Discovery**" on **Tuesday, April 21 from 10:30 am – 12:30 pm**. Molecular imaging unites molecular biology and in vivo imaging, and enables the visualization of cellular functions and molecular processes in living organisms without perturbing them. This rapidly evolving field has applicability to drug discovery ranging from obtaining global views of target tissues and drug actions, to target identification and localization, as well as non-invasive imaging of pathophysiologic processes in a number of tissues and organ systems and the influences of novel and existing therapeutic agents on these processes. This symposium will review a) the key recent developments in molecular imaging and their impact on drug discovery, b) future perspective for the application of reporter animals for drug discovery, c) functional molecular imaging in translational research and d) advances made towards the potential clinical applications of molecular imaging in pathophysiological processes of cardiovascular disease. Attendees will gain an appreciation for the new and emerging applications of molecular imaging to drug discovery and pathophysiology.

In addition, the APS and LWIC are co-sponsoring a Translational Physiology Symposium entitled "**Fibrosis: Signaling, Physiology, and Therapies**" on **Monday, 20 April from 10:30 am – 12:30 pm**. Tissue fibrosis is associated with several end-stage organ diseases, including hepatic cirrhosis, cardiac diastolic dysfunction, and chronic kidney disease. In many cases correcting the underlying insult allows for recovery and regeneration of functional tissue. However, if left untreated, persistent insults lead to unchecked chronic wound healing and tissue fibrosis, greatly compromising organ function. This symposium will review a) the key signaling pathways associated with fibrosis in multiple tissues, b) epithelial-to-mesenchymal transition as a mechanism that promotes fibrogenesis in kidney and lung, c) the similarities and differences associated with current small molecule and biologic therapies, and d) the successes and challenges that fibrotic therapies are experiencing in the clinic. Attendees will gain an appreciation for the translational nature of studying and treating fibrotic diseases. Look for the full program on-line at <http://www.the-aps.org/meetings/eb09/program.htm>.

You're invited! Come meet and eat with your fellow Physiologists who are working in the corporate and/or industrial sector. The **9th Annual Liaison with Industry Committee Mixer** at EB '09 is on **Sunday, April 19<sup>th</sup>, 7:00 – 9:00 PM** in the Marlborough A Room of the Hilton New Orleans Riverside Hotel. Free Hors d'oeuvres will be available along with a cash bar – we hope to see you there!

“The International Society for Autonomic Neuroscience (ISAN) and the European Federation of Autonomic Societies (EFAS) invite APS members to attend their upcoming joint Conference, which will be held at the Manly Pacific Hotel in Sydney, Australia, from Tuesday 1 September to Friday 4 September, 2009. The conference program includes 4 plenary lecturers by internationally renowned scientists and 19 exciting and topical symposia. More information about registration and abstract submission can be obtained from <http://www.iceaustralia.com/isan2009/call>.



## **ABSTRACT SUBMISSION DEADLINE: FRIDAY APRIL 10<sup>TH</sup>, 2009**

### Plenary speakers

Darwin Berg (USA), Hugo Critchley (UK), Max Hinz (Germany), Elspeth McLachlan (AUS)

### Symposia

- Molecular control of autonomic neuron development
- Neurotrophic factors in autonomic nervous system development
- Central cardiovascular control: Plasticity in response to normal physiological challenges
- Control of neuronal functions by the endothelium in the autonomic and neuroendocrine brain
- Advances in sympathetic junctional transmission
- Ion channels, neuromodulators and ganglionic regulation
- Autonomic mechanisms contributing to the control of long term blood pressure level
- Neural control of gut functions
- Gastrointestinal chemoreception and autonomic impact on energy balance
- Thermoregulation plus
- The ANS as a modulator of innate immune responses
- Linking emotional stress to autonomic function
- Autonomic neuropathies - Recent advances
- Autonomic disorders in Parkinson's Disease
- Linking emotional stress to autonomic function
- Human evaluation of autonomic activity
- Chemo-baroreflex interactions in physiological and pathological conditions
- The autonomic nervous system in spinal cord injury – bench to bedside
- Music and the autonomic nervous system

**CNS Section Steering Committee****Chair and SAC Representative**

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**Ex-Officio Members**

Colleen Cosgrove Hegg (Women in Physiology)  
Jessica Filosa (Women in Physiology)  
Celia Sladek (Publications)  
Anthony J.M. Verberne (Membership)  
J. Michael Wyss (Council Liaison)  
Scott Carlson (Committee on Committees)  
James Gnadt (Animal Care)  
Bill J. Yates (Animal Care)  
William J. Martin (former chair)