Experimental Biology 2015 is just around the corner. This year promises to be a very busy meeting filled with great topics and activities. To help you prepare for the meeting, our spring issue provides details for the NCAR program, our Reception/Awards Presentation Mixer, and trainee related activities at the meeting. Foremost, Dr. Jere H. Mitchell will be presenting the Ludwig Lecture (8 AM Monday). We also have the second annual Data NCARnation (3-5 PM Saturday afternoon), and the NCAR Trainee Featured Topic to highlight this year’s NCAR young investigator award winners. We hope everyone will attend and support these sessions.

You may be preparing for EB 2015, but it is time to organize EB 2016! Please send us proposals for symposia and featured topics. We need more participation from our membership to make our NCAR program the best it can be. Not sure how do get started? We will help make your interests come to light in a focused session. Details on pages 6-7. Please take notice. Nominations are open for the Carl Ludwig Lectureship for 2016. The deadline for EB session proposals is March 6, 2015, so act quickly!

There are openings in two positions on the steering committee for regular (post doc or faculty/researcher) members of NCAR: Secretary-Treasurer and Committee on Committees Representative. Details are on page 7. Also there are two openings on the NCAR steering committee for student and post-doctoral primary members of NCAR: The Trainee Advisory Committee Representative and Science Policy Liaison. The deadline for the applications is March 16, 2015. Please consider an individual donation to NCAR to help keep our awards and functions viable. Lastly, thanks go to Julian Stewart, editor of this fine Newsletter!

**CARL LUDWIG DISTINGUISHED LECTURESHIP EB 2015**

Jere H. Mitchell M.D. has been named the Carl Ludwig Distinguished Lecturer for 2015. Dr. Mitchell is Professor of Internal Medicine and Physiology and holds the Carolyn P. and S. Roger Horchow Chair in Cardiac Research at the University of Texas Southwestern Medical Center. Dr. Mitchell will speak about “Abnormal Cardiovascular Response to Exercise in Hypertension: Contributing Neural Factors” on Monday March 30th, 8:00 AM – 9:00 AM, Room 210A. A Minisymposium, chaired by Dr. Mitchell, on Neural Control of the Circulation During Exercise in Normal and Disease States will follow from 9-10 AM.
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Session-Rm</th>
<th>Title</th>
<th>Chairs/Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday</td>
<td>3:00 PM</td>
<td>Special Function Rm 212</td>
<td>Data NCARnation (program see page 4)</td>
<td>Anne Crecelius Ted Dick</td>
</tr>
<tr>
<td>March 28</td>
<td>5:00 PM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8:00 AM-</td>
<td>Featured Topic Rm 206A</td>
<td>NCAR Trainee Featured Topic (Titles: see page 5)</td>
<td>Huijing Xia Alicia Schiller</td>
</tr>
<tr>
<td></td>
<td>10:00 AM</td>
<td></td>
<td>New Investigator Award</td>
<td>Rohit Ramchandra Jacqueline Limberg</td>
</tr>
<tr>
<td></td>
<td>8:30 AM</td>
<td></td>
<td>M. J. Brody Young Invest. Award by ADInstruments</td>
<td>Megan Bardgett Joon (Kyoungjoon) Lim Davi Moraes Lauro Vianna</td>
</tr>
<tr>
<td></td>
<td>8:45 AM</td>
<td></td>
<td>Postdoctoral and Early Career Research Recognition Awards</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:00 AM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:15 AM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:30 AM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:45 AM</td>
<td></td>
<td>DSI Outstanding Graduate Student Award</td>
<td>Heather Jameson</td>
</tr>
<tr>
<td>Sunday</td>
<td>10:30 AM</td>
<td>Symposium Rm 205C</td>
<td>Angiotensin Type 2 Receptors in the Brain: A Functional Coming-of-Age in Cardiovascular Control</td>
<td>Colin Sumners Erin Bruce Ulrike Steckelings</td>
</tr>
<tr>
<td>March 29</td>
<td>12:30 PM</td>
<td></td>
<td>The AT2-receptor: from a receptor of academic interest to a novel drug target in cardiovascular medicine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>11:00 AM</td>
<td></td>
<td>A new look at AT2 receptor localization in the brain</td>
<td>Annette de Kloet</td>
</tr>
<tr>
<td></td>
<td>11:30 AM</td>
<td></td>
<td>Angiotensin type 2 receptors and sympathetic outflow</td>
<td>Lie Gao</td>
</tr>
<tr>
<td></td>
<td>12:00 PM</td>
<td></td>
<td>Increased expression of AT2 receptors in the NTS: effects on cardiovascular control during hypertension</td>
<td>Debora Colomabari</td>
</tr>
<tr>
<td></td>
<td>3:15 PM-</td>
<td>Featured Topic Rm 209</td>
<td>Baroreflex and Chemoreflex Controls of the Human Cerebral Circulation</td>
<td>Caroline Rickards</td>
</tr>
<tr>
<td></td>
<td>5:15 PM</td>
<td></td>
<td>Baroreflex, autoregulation, and brain perfusion stability:</td>
<td>Yu-Chieh Tzeng</td>
</tr>
<tr>
<td></td>
<td>3:15 PM</td>
<td></td>
<td>Impact of mild orthostatic stress on aortic-cerebral pulsatile flow… Insights from the frequency domain</td>
<td>Jun Sugawara</td>
</tr>
<tr>
<td></td>
<td>3:45 PM</td>
<td></td>
<td>Reduced cerebrovascular response to CO2 rebreathing in spinal cord injury J. W. Hamner</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4:00 AM</td>
<td></td>
<td>Acute natural cocoa consumption improves cerebral vasodilatory capacity in obese individuals Chansol Hurr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4:15 PM</td>
<td></td>
<td>Inter-individual relationships between sympathetic arterial baroreflex function and cerebral perfusion control in healthy males Trevor Witter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4:30 PM</td>
<td></td>
<td>The relationship between cerebral blood flow and carbon dioxide James Duffin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4:45 PM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monday</td>
<td>8:00 AM</td>
<td>Ludwig Distinguished Lecture</td>
<td>Abnormal cardiovascular response to exercise in hypertension: contributing neural factors</td>
<td>Jere H. Mitchell</td>
</tr>
<tr>
<td>March 30</td>
<td>9:00 AM-</td>
<td>Ludwig Minisymposium Rm 210A</td>
<td>Neural Control of the Circulation During Exercise in Normal and Disease States</td>
<td>Jere H. Mitchell Scott Smith Lauro Vianna</td>
</tr>
<tr>
<td></td>
<td>10:00 AM</td>
<td></td>
<td>Intrathecal fentanyl abolishes the exaggerated pressor response to cycling exercise in …hypertensive men Hanjun Wang</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:15 AM</td>
<td></td>
<td>K+ channel dysfunction in dorsal root ganglia contributes to exaggerated exercise pressor reflex in heart failure Audrey Stone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:30 AM</td>
<td></td>
<td>Role of NaV1.7 channels on skeletal muscle afferents in evoking the exercise pressor reflex</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:45 AM</td>
<td></td>
<td>Augmented skeletal muscle metaboreflex activation in patients with Type 2 diabetes mellitus Seth Holwerda</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:30 AM-</td>
<td>Cross Section Symposium Rm 210BC</td>
<td>Neurohumoral Mechanisms in Blood Pressure Control</td>
<td>J. R. Haywood Allen Cowley Irving Zucker Greg Fink</td>
</tr>
<tr>
<td></td>
<td>12:30 PM</td>
<td></td>
<td>Cardiac sympathetic afferent denervation in heart failure: Impact on SNA and cardiac remodeling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>11:00 AM</td>
<td></td>
<td>Sympathetic nervous system overactivity and its role in the development of cardiovascular disease</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Topic</td>
<td>Speaker/Authors</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>----------------------------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>11:30 AM</td>
<td>Baroreceptors vs. renin-angiotensin system in blood pressure control</td>
<td>Pontus Persson</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Neural mechanisms in models of hypertension</td>
<td>Tom Cunningham</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30 AM-</td>
<td>Featured Topic 3 of 5</td>
<td>Hypothalamic Autonomic Control of Metabolism</td>
<td>Yanyan Jiang, Andrea Zsombak</td>
<td></td>
</tr>
<tr>
<td>12:30 AM</td>
<td><strong>Room 209</strong></td>
<td>Central TRPV1 and regulation of glucose metabolism</td>
<td>Andrea Zsombak, Vitaly Ryu</td>
<td></td>
</tr>
<tr>
<td>10:30 AM</td>
<td>Central TRPV1 and regulation of glucose metabolism</td>
<td>Andra Zsombak</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Bidirectional communication between the brain and adipose tissue</td>
<td>Vitaly Ryu</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:30 AM</td>
<td>Differential involvement of POMC and AgRP neurons in the regional sympathetic response to leptin</td>
<td>Balyssa Bell</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:45 AM</td>
<td>Specific control of resting metabolism by angiotensin AT1a receptors in leptin-sensitive cells</td>
<td>Kristin Claflin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Central action of insulin on the modulation of autonomic balance to control hepatic glucose of Wistar and SHR...</td>
<td>Izabela Ribeiro</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:15 PM</td>
<td>Activation of perifomical neurons modulates the adrenal sympathetic response to hypoglycem...</td>
<td>William Korim</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6:00 PM-</td>
<td>Harbor Ballroom 1, Westin Waterfront</td>
<td><strong>NCAR Reception and Awards Presentations</strong></td>
<td>William Korim, Rodrigo Del Rio</td>
<td></td>
</tr>
<tr>
<td>8:00 PM-</td>
<td><strong>Symposium 2 of 2</strong></td>
<td>Autonomic Denervation in Cardiovascular Disease: Mechanisms and Therapeutic Potential</td>
<td>Irving Zucker, Julian Paton</td>
<td></td>
</tr>
<tr>
<td>10:00 AM</td>
<td><strong>Rm 210A</strong></td>
<td>The carotid body in heart failure: alternative therapies</td>
<td>Noah Marcus</td>
<td></td>
</tr>
<tr>
<td>8:30 AM</td>
<td>Targeted ablation of renal afferent nerves for treatment of hypertension</td>
<td>John Osborn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Carotid body ablation: a preclinical study for the treatment of hypertension</td>
<td>Wioletta Pijacka</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Stellate ganglionetomy for ventricular arrhythmia therapy</td>
<td>Kalayanam Shivkumar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30 AM-</td>
<td>Featured Topic 4 of 5</td>
<td>Interactions Between Cardiovascular and Ingestive Behavioral Signals at the Circumventricular Organs</td>
<td>John Collister, Al Ferguson</td>
<td></td>
</tr>
<tr>
<td>12:30 AM</td>
<td><strong>Rm 206A</strong></td>
<td>Traditional and new roles of the circumventricular organs in cardiovascular regulation and homeostasis</td>
<td>Alan Kim Johnson</td>
<td></td>
</tr>
<tr>
<td>10:30 AM</td>
<td>Circumventricular organs:...involvement in sensing metabolic signals and mediating ingestive behaviors</td>
<td>Thomas Lutz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Overexpression of copper/zinc superoxide dismutase in the OVLT attenuates angiotensin II hypertension in rat</td>
<td>John Collister</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:30 AM</td>
<td>OVLT neurons exhibit exquisite osmosensitivity to elevated NaCl concentrations</td>
<td>Brian Kinsman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:45 AM</td>
<td>Angiotensin Type 1a receptors in the forebrain SFO protect against high fat diet-induced hepatic steatosis</td>
<td>Julia Horwath</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Leptin and amylin influence the excitability of area postrema neurons, via CAMP-mediated mechanism</td>
<td>Pauline Smith</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:15 PM</td>
<td>Role of the peripheral chemoreflex on...sympathetic responses to obstructive sleep apnea in rats</td>
<td>Kenju Miki</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday</strong></td>
<td><strong>March 31</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30 AM-</td>
<td><strong>Rm 205B</strong></td>
<td>Refreshing Perspectives on the Role of Chemoreflexes in the Control of Cardiorespiratory Functions: New Pathways and Players</td>
<td>Noah Marcus, Rodrigo Del Rio</td>
<td></td>
</tr>
<tr>
<td>12:30 PM</td>
<td><strong>Rm 205B</strong></td>
<td>Cardiorespiratory imbalance in low vs. high output heart failure:the role of the chemoreflex pathway</td>
<td>Rodrigo Del Rio</td>
<td></td>
</tr>
<tr>
<td>10:30 AM</td>
<td>Impact of erythropoietin in the carotid body response to hypoxia and hypercapnia</td>
<td>Jorge Soliz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Chronic phenytoin treatment reduce hypoxic ventilatory responses in rats</td>
<td>Julio Alcayaga</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:30 AM</td>
<td>Role of the peripheral chemoreflex on...sympathetic responses to obstructive sleep apnea in rats</td>
<td>Kenju Miki</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:45 AM</td>
<td>Carotid chemoreceptor desensitization improves baroreflex ...during hypoxia in humans</td>
<td>Michael Mozer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00 PM</td>
<td>P2X3 receptor antagonism reduces ... chemoreflex hypersensitivity and blood pressure in SHR</td>
<td>Wioletta Pijacka</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:15 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Back by popular acclaim! Second Annual Data NCARnation Saturday March 28
### Room 212 3-5PM
Provides trainees an opportunity to give a brief oral presentation to serve as a "preview" for their poster presentations during the week.

### Chairs
Anne Crecelius, Ted Dick

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00-3:05</td>
<td>Introduction</td>
<td>Harold Schultz</td>
</tr>
<tr>
<td>3:05-3:10</td>
<td>Autonomic Function in Humans</td>
<td>Ida Fonkue</td>
</tr>
<tr>
<td>3:10-3:15</td>
<td>“Acute Oral Ingestion of Alcohol Modulates Muscle Sympathetic Neural Activity Differently in Caucasians and African Americans”</td>
<td>Sara Rodrigues</td>
</tr>
<tr>
<td>3:20-3:25</td>
<td>“The Effect of Multiple Sclerosis on Carotid Baroreflex Control of Heart Rate and Blood Pressure”</td>
<td>Mu Huang</td>
</tr>
<tr>
<td>3:25-3:45</td>
<td>Discussion and Social Break</td>
<td></td>
</tr>
<tr>
<td>3:45-3:50</td>
<td>Cell Signaling</td>
<td></td>
</tr>
<tr>
<td>3:45-3:50</td>
<td>“Sympathetic Tone Differentially Regulates MHC II Expression by Macrophages and Enteric Glia in the GI tract”</td>
<td>Robert Vanderkamp</td>
</tr>
<tr>
<td>3:50-3:55</td>
<td>“Dissociating the Metabolic and Cardiovascular Effects of Leptin through mTORC1 Signaling”</td>
<td>Mohamed Rouabhi</td>
</tr>
<tr>
<td>3:55-4:00</td>
<td>“Neuron-Specific (Pro)renin Receptor Deletion Regulates Renin-Angiotensin Components and Contributes to the Amelioration of DOCA-salt Hypertension”</td>
<td>Asghar Ali</td>
</tr>
<tr>
<td>4:00-4:05</td>
<td>“Chronic Salt Loading Alters Pre-Autonomic Neuropeptide Expression in the Paraventricular Nucleus”</td>
<td>Justin Smith</td>
</tr>
<tr>
<td>4:05-4:25</td>
<td>Discussion and Social Break</td>
<td></td>
</tr>
<tr>
<td>4:25-4:30</td>
<td>Central Regulation of Peripheral Function</td>
<td></td>
</tr>
<tr>
<td>4:25-4:30</td>
<td>“Lesion of the Area Postrema reduces cardiac sympathoexcitation and improves cardiac function in heart failure”</td>
<td>Yonis Abukar</td>
</tr>
<tr>
<td>4:30-4:35</td>
<td>“Selective inhibition of the adrenergic C1 neurons reduces the hypoxic ventilator response in unanesthetized rats”</td>
<td>Milene Malheiros-Lima</td>
</tr>
<tr>
<td>4:40-4:45</td>
<td>“PVN Neuropeptide Y Contributes to the Sympathoexcitatory Effect of Leptin”</td>
<td>Zhigang Shi</td>
</tr>
<tr>
<td>4:45-5:00</td>
<td>Discussion and Wrap-Up</td>
<td></td>
</tr>
</tbody>
</table>
OTHER EB SESSIONS OF INTEREST
There are many sessions scheduled for EB 2015 sponsored by other APS sections that may be of interest to you. You can review these sessions online at http://www.apsebmeeting.org/eb2015/week-at-a-glance.htm

PHYSIOLOGISTS IN INDUSTRY SYMPOSIUM and AWARDS
The Physiologists in Industry Committee invites you to attend their sponsored symposium “Targeting Gut Microbiome in Human Diseases and as Novel Therapeutics” on Sunday, March 29, 10:30 AM – 12:30 PM in Rm 205B Convention Center.

We are very pleased to announce that the 2015 PIC Novel Disease Model Predoctoral Award has been given to a student NCAR member, Ms. Casey Y. Carmichael, Boston University School of Medicine, for her abstract entitled “The renal afferent nerves: A role in countering salt-sensitive hypertension”.

NCAR RECEPTION/AWARDS PRESENTATIONS AT EB 2015
Please join us at the NCAR Section Mixer at EB, Monday, March 30, 6:00-8:00 pm, at the Westin Boston Waterfront Hotel, Harbor Ballroom 1. We will honor Dr. Jere H. Mitchell for the 2015 Carl Ludwig Distinguished Lecture and present the awards for the NCAR sponsored young investigator awards.

The winners of the 2015 NCAR young investigator awards are:
New Investigator Award: Dr. Rohit Ramchandra, University of Auckland, “Changes in Directly Recorded Sympathetic Nerve Activity and Noradrenaline Spillover to the Heart and Kidney during Heart Failure”
Michael J. Brody Young Investigator Award, Sponsored by ADInstruments: Dr. Jacqueline Limberg, Mayo Clinic, “Effect of Carotid Body Resection on Baroreflex Control of Blood Pressure During Hypoglycemia”
Data Sciences International Outstanding Graduate Student Award: Heather Jameson, George Washington University, “Restoration of Oxytocin Neuron Activity Prevents Hypertension Caused by Chronic Intermittent Hypoxia/Hypercapnia”

Postdoctoral and Early Career Research Recognition Awards:
Dr. Megan Bardgett, University of Texas Health Science Center at San Antonio, “PSD95 Coupling of NMDA Receptor Activation and Nitric Oxide Activity in the Hypothalamic PVN”
Dr. Joon (Kyongjoon) Lim, Baker IDI Heart & Diabetes Institute, “Maternal obesity and the developmental programming of hypertension: the role of leptin in the central nervous system”
Davi J.A. Moraes, University of São Paulo, “P2X3 receptor-mediated chemoreceptor hypersensitivity in young spontaneous hypertensive rats”
Lauro C. Vianna, University of Brasília, “Exogenous L-Arginine Restores Spontaneous Cardiac Baroreflex Sensitivity in Never-Treated Hypertensive Men”

NCAR SPONSORED TRAINEE SESSIONS AT EB 2015
The NCAR young investigator award winners will be presenting their talks (titles above) at the NCAR Trainee Featured Topic on Sunday March 30, 2015 at 8-10 AM, Room 206A, Convention Center. Please attend this important session.

Also please attend our second annual trainee session Data NCARnation on Saturday March 29, 2015 from 3-5 PM, Room 212, Convention Center. We have selected 12 poster abstracts from those submitted by graduate students and post docs, arranged by three broad themes (see above). Each speaker will present a short 5 min ‘glimpse’ of their poster. There will be three intermissions during the session for a grouped discussion of each topic and for socializing. Snacks and cash bar will be available. Please make arrangements to attend this session to support and meet our young trainees.

Proud Sponsor of NCAR
CONGRATULATIONS! OTHER AWARDS GIVEN TO NCAR MEMBERS

Caroline tum Suden/Frances Hellebrandt Professional Opportunity Awards
  Bryan Becker, University of Nebraska Med Center
  Ida Fonkoue, Michigan Technological University
  Christopher Hearon Jr., Colorado State University
  Seth Holwerda, University of Missouri
  William Hughes, University of Iowa
  Noah Jouett, University of North Texas Health Science Center
  Wencheng Li, Colorado State University
  Tim Ostrowski, University of Missouri
  Sushant Ranadive, Mayo Clinic
  Zhigang Shi, Oregon Health & Science University
  Justin Sprick, University of North Texas Health Science Center
  Srinivas Sriramula, LSU Health Sciences Center
  Anna Stanhewicz, The Pennsylvania State University

International Early Career Physiologist Travel Award
  Rodrigo Del Rio, Universidad Autónoma de Chile
  Lauro Vianna, Fluminense Federal University, Brazil

Minority Travel Fellowship Award
  Isola Brown, Michigan State University
  Antentor Hinton, Jr., Baylor College of Medicine
  Grace Santa Cruz Chavez, IUPUI
  Annie Whitaker, Louisiana St Univ

Steven M. Horvath Professional Opportunity Award
  Monica Santisteban, University of Florida

Giles F. Filley Memorial Award for Excellence in Respiratory Physiology and Medicine
  Matthew Hodges, Medical Col of Wisconsin
  Nicole Nichols, Univ Wisconsin Madison

2014-2015 STEP-UP Fellows
  Carmen De Jesus, Nova Southeastern University (Robert C. Speth, Ph.D. host)
  An Nguyen, Virginia Polytechnic Institute and State University (Barry H. Paw, M.D., Ph.D. host)

Young Investigator Award from Society for Experimental Biology and Medicine
  Alicia Schiller, University of Nebraska Med Center
  Bryan Becker, University of Nebraska Med Center

SUBMIT PROPOSALS FOR NCAR FEATURED TOPICS AND SYMPOSIA FOR EB 2016

We highly encourage our members to submit proposals. Two symposia and five featured topics are sponsored by NCAR every year. A brief description of each follows:

Symposia: Typically include 4-5 speakers; 20-30 min presentations with a 2 hr maximum time allotment. Organizers should consider multidisciplinary approaches (including participation of other APS sections) and inclusion of multiple levels of investigation and diversity of speakers.

Featured Topics: Typically include 1-2 invited speakers (20-30 min presentations), followed by 4 selected abstracts submitted to EB (10-15 min presentations); 2 hr. maximum time allotment.

We also encourage all NCAR members to consider two additional channels for proposing scientific sessions for EB2016: The mini cross sectional session (symposium or FT) is a means to submit a shared proposal in collaboration with another section (e.g., CNS, WEH, CV). In this format, we will highlight speakers (and abstracts if FT) from two sections in one session to appeal to a broader shared perspective on a particular topic. Also, there will be a new Integrative Symposia Series that would appeal to individuals from many APS sections. https://www.surveymonkey.com/r/7JBRDTT These symposia will cut across physiological research areas and be of interest to a broad audience. The Joint Programming Committee is seeking breakthrough topics and excellent speakers to highlight in this four-symposium series and speakers will be reviewed by the Joint Programming Committee and consolidated to form four 2-hour sessions with four presenters each. Submit your ideas to Mark Knuepf (knuepfmm@slu.edu)
on or before **March 6, 2015**. In general, to ensure NCAR provides you with excellent programming, we need your input. Please consider submitting a proposal, or contact Mark with ideas and/or suggestions of individuals we can contact to solicit a proposal. Further information to propose a featured topic or symposium can be found at [http://www.the-aps.org/mm/hp/Audiences/Sections/neural-control-auto-reg/propose-ft-and-symp](http://www.the-aps.org/mm/hp/Audiences/Sections/neural-control-auto-reg/propose-ft-and-symp)

**SUBMIT NOMINATIONS FOR CARL LUDWIG DISTINGUISHED LECTURESHIP 2016**

The deadline is near for nominations for the Carl Ludwig Distinguished Lectureship to be presented at EB 2016. The qualifications for the Ludwig Lectureship Award are described and past winners are listed on the APS website ([http://www.the-aps.org/mm/awards/sections/ncar](http://www.the-aps.org/mm/awards/sections/ncar)). The recipient is chosen by the Section Steering Committee as a representative of the best established investigator within the discipline of autonomic control. Please submit a letter of nomination outlining the qualifications of the nominee and the Curriculum Vitae of the nominee to Harold Schultz ([hschultz@unmc.edu](mailto:hschultz@unmc.edu)) by **March 16, 2015**. Resubmission of prior unsuccessful nominations is encouraged. Two letters of nomination from members of NCAR are required for each nominee.

**SUBMIT APPLICATIONS FOR NCAR STEERING COMMITTEE POSITIONS**

Four positions on the NCAR steering committee are now open for application. The positions of Secretary-Treasurer presently held by Julian Stewart, the Committee on Committees Representative held by Paul Fadel, the Trainee Advisory Committee Representative held by Karla Haack, and the Science Policy Liaison held by Catharine Young are drawing to an end. Applicants must be primary members of NCAR. We highly encourage our members of diversity to take an active role in our section. Prior experience on APS committees is not necessary to fulfill the duties. Please email Harold Schultz ([hschultz@unmc.edu](mailto:hschultz@unmc.edu)) for an application form or to address any questions. Please send applications to our Secretary Treasurer Dr. Julian Stewart ([julian_stewart@nymc.edu](mailto:julian_stewart@nymc.edu)) by **March 16, 2015**.

**EDITOR’S REPORT 2015: AJP REGULATORY, INTEGRATIVE AND COMPARATIVE PHYSIOLOGY**

The American Journal of Physiology (Regulatory, Integrative and Comparative Physiology) closed out 2014 with a total of 509 manuscripts submitted. Our median time to first decision was 21 days and our overall acceptance rate was 55%. Research articles made up 90% of the articles received in 2014, 6% were review articles and the remainder editorial or innovative methodology manuscripts. We partnered in 2014 with several APS sponsored meetings to invite review articles from keynote speakers and in 2015 will work with the organizers of two APS sponsored meetings: the 14th International Conference on Endothelin (September 2-5) and the Conference on Cardiovascular, Renal and Metabolic Diseases: Physiology and Gender (November 17-20). We currently have one Call for Papers in place: Oxygen and Regulator of Biological Systems (Roger Evans, Editor) and welcome suggestions for new Calls. We thank J. Thomas Cunningham and Sean Stocker for helping our as guest editors for the Calls on Fluid and Electrolyte Homeostasis and Central Control of Cardiovascular Function, respectively. We invite you to visit our website ([http://ajpregu.physiology.org/](http://ajpregu.physiology.org/)) where you can access journal information and the list of Associate Editors. We look forward to providing you punctual, authoritative and fair reviews and hope you consider AJP RIC first when submitting your work for peer review.

The AJP RIC is soliciting suggestions for new Calls for Papers designed to broaden the journal's audience and highlight an important and/or developing story in the field. All suggestions are welcome. Please submit a title (less than 10 words) and a statement (<250 words) describing the "Call" and its importance. Please send suggestions to W.K. Samson PhD DSC, Editor-In-Chief, [ajp@slu.edu](mailto:ajp@slu.edu).
FUTURE EVENTS

- The 14th International Conference on Endothelin (September 2-5) Savannah, Ga, Abstracts due May 29, 2015 at 11:59 PM EST. http://www.the-aps.org/mm/Conferences/APS-Conferences/2015-Conferences/ET-14
- 3rd Cardiovascular Forum for Promoting Centres of Excellence and Young Investigators
  Chairman: Devendra K. Agrawal Creighton University, Omaha, Nebraska E-mail: dkagr@creighton.edu
  September 10 – 12, 2015
  Call for Plenary and Keynote Speakers. Feb 12, 2015

For Related Meetings please visit http://www.the-aps.org/mm/Conferences/Related-Meetings
MESSAGE FROM THE TRAINEE REPRESENTATIVE

Karla K.V. Haack, Univ. of Nebraska Medical Center, kvincent@unmc.edu

Greetings Trainees! Bring your coats and join us for this year’s exciting Experimental Biology meeting in Boston, MA at the Boston Convention and Exhibit Center!

Please plan to attend the NCAR Reception and Awards Presentation on Monday, March 30, 6:00-8:00 PM, Harbor Ballroom 1 Westin Waterfront Hotel. This event is free with plenty of food and a cash bar.

Trainees are invited to the 2015 Meet the Nobel Laureate Reception following the APS President’s Symposia Nobel Prize in Physiology or Medicine Lecture. This wine and cheese reception will honor Dr. Robert Lefkowitz following his lecture on Wednesday, April 1, 4:45 PM, Room 210 B/C.

Below is a list of a few sessions at EB 2015 that may be of particular relevance to trainees:

1. Data NCARnation, Saturday March 28, 3:00-5:00 PM, Room 212
2. NCAR Young Investigator Awards Featured Topic, Sunday March 29, 8:00-10:00 AM, Room 206A
3. Carl Ludwig Distinguished Lectureship Presented by Dr. Jere Mitchell, Monday March 30, 8:00 AM, Room 210A
4. Trainee Advisory Committee First Annual Cross-Sectional Featured Topic, “Recent Advances in Obesity Research”, Monday March 30, 8:00 AM, Room 210 B/C

Please subscribe to the Trainee listserv by sending an email with “Trainee Listserv” in the subject line to Education@The-APS.org or go to: http://www.the-aps.org/mm/hp/Audiences/Students/GraduateMedical-Students and join the “APS Trainees” and “American Physiological Society” groups on Facebook for additional trainee events happening at EB.

The APS is offering a number of Professional Skills Training workshops that will be especially helpful to get ready for EB! Please see: http://www.the-aps.org/mm/Education/GraduateProfessional/Educational-Projects/Prof-Skills-Training/Take-a-Course for more details.

IMPORTANT DEADLINES

♦ NCAR Symposia and Featured Topic Proposals EB 2106: Deadline is March 6, 2015 contact Mark Knuepfer (knuepfmm@slu.edu).
♦ 2016 EB Integrative Symposia: Call for Topics and Speakers: Deadline is March 13, 2015 https://www.surveymonkey.com/r/7JBRDTT contact Mark Knuepfer for details (knuepfmm@slu.edu)
♦ Carl Ludwig Distinguished Lectureship for 2106: Deadline is March 16, 2015 contact Harold Schultz (hschultz@unmc.edu).
♦ Applications for Positions on the NCAR Steering Committee: March 16, 2015 contact Harold Schultz (hschultz@unmc.edu) or Julian Stewart (julian_stewart@nymc.edu).

WELCOME TO NCAR: NEW MEMBERS FROM SEPT 2014 THROUGH FEB 2015

Student Members, Primary Affiliation

Asghar Ali , Biomedical Sciences, Colorado State University, 80523-1678, Fort Collins, Co.
Parul Choudary , University of North Texas Health Science Center, Fort Worth, Tx
Kristin Claflin , Pharmacology, University of Iowa, , Iowa City
Charmain Fernando , Department of Medical Pharmacology and Physiology, University of Missouri Columbia, Columbia, Mo
Kelley Hammond , Program in Rehabilitation Science, University of Alabama At Birmingham, 1720 2nd Ave S, Birmingham
Wouter Hoogkamer , Department of Kinesiology, KU Leuven, Leuven, Ks
Heather Jameson , Pharmacology and Physiology, George Washington University, Suite 640, Washington DC
Sachini Jayaratne , Biomedical Science, University of Sydney, , Camperdown, Au
Matan Karklinsky , Mathematics and Computer Science, Weizmann Institute of Science , Rehovot, Israel
Wenjun Kou , Mechanical Engineering, Northwestern University, Tech Building, Evanston, Ill
Eduardo Lemes , Physiology and Pathology, São Paulo State University, Araraquara, Sao Paulo, Brazil
Yoke Peng Leong , Control and Dynamical Systems, California Institute of Technology, Pasadena, Ca
Robert Lewis, Pharmacology and Physiology, Oklahoma State University, Tulsa, OK
Mary McGinn, Department of Physiology, LSU Health Sciences Center - New Orleans, New Orleans, LA
Snigdha Mukerjee, Pharmacology, Louisiana State University Health Sciences Center, New Orleans, LA
Jayakrishnan Nair, Pharmaceutical Therapy, University of Florida, Gainesville, FL
Louise Prestipino, School of Medical Sciences, University of Sydney, University of Sydney, Sydney, Australia
Nicholas Pugliano, Physiology, University of Minnesota - Twin Cities, Minneapolis, MN
Mohamed Rouabbi, Pharmacology, The University of Iowa, Iowa City
Ahlam Salameh, Physiology and Biophysics, Case Western Reserve University, Cleveland, OH
Brooke Shafer, Kinesiology and Nutrition, University of Illinois At Chicago, Chicago, IL
Elisa Viveros, Pharmaceutical Chemistry, Universidad Icesi, Cali, Colombia
Sang Ouk Wee, Department of Kinesiology & Nutrition, University of Illinois At Chicago, Chicago, IL
Xin Ye, Health and Exercise Science, University of Oklahoma, Norman, OK

**Student Members, Secondary Affiliation**

Billie Alba, Kinesiology, Pennsylvania State University, State College, PA
Craig Coronado, Exercise Physiology, The College of St. Scholastica, Benicia, CA
Taneisha Gillyard, Biomedical Research, Meharry Medical College, Nashville, TN
Leanne Hochberg, School of Sport and Exercise Science, The University of Northern Colorado, Greeley, CO.
Kevin Kelly, Physiology, Michigan State University, Okemos, MI
Obara Khurram, Biomedical Engineering and Physiology, Mayo Clinic, Rochester, MN
Azadeh Sabetghadam, Neuroscience, University of Melbourne, Carlton, Australia
Ahlem Salameh, Physiology and Biophysics, Case Western Reserve University, Cleveland, OH
Jeremy Sandgren, Pharmacology, University of Iowa, 2-300 BSB, Iowa City, IA

**Regular Members, Primary Affiliation**

David Adelson, Div. of Digestive Diseases, David Geffen UCLA School of Medicine, Los Angeles, CA
Andrew Beaudin, Physiology & Pharmacology, Univ of Calgary Mackimmie Lib, Calgary
Frank Bremmer, Dept. Neurophysiology, University of Marburg, Marburg, Germany
Tuan Bui, Biology, University of Ottawa, Ottawa, Canada
Mark Burke, Physiology & Biophysics, Howard University, Washington DC
Hillel Chiel, Biology, Case Western Reserve University, Cleveland, OH
Marina Cholalian, Physiology, University of Arizona, Tucson, AZ
Juliana De Gobbi, Physiology, Sao Paulo State University, Botucatu, Brazil
Olga Dergacheva, Pharmacology@Physiology, The George Washington University, Washington DC
Jhansi Dyavanapalli, Pharmacology & Physiology, The George Washington University, Washington DC
Jeffery Erickson, Biology, The College of New Jersey, Ewing, NJ
Jerome Fleuriet, Ophthalmology, University of Washington / Primate Center, 1959 North Pacific St, Seattle, WA
Kevin Foust, Neuroscience, Ohio State University, Columbus, OH
Serena Kuang, Biomedical Sciences, Oakland University William Beaumont School of Med, Rochester, MI
Justin Lawley, Internal Medicine, Institute For Exercise and Environmental Medicine, Dallas, TX
Esteban Moya, Physiology, University of California, San Diego, La Jolla, CA
Emma O'Donnell, Dept., Medicine, Div., of Cardiology, University Health Network, Toronto General Hospital, Toronto
Terry O'Donnell, Centre for Translational Physiology, University of Otago, Newtown, Wellington, BC
Hiroshi Onimaru, Physiology, Showa University School of Medicine, Tokyo, Japan
Ying-Jie Peng, Medicine, University of Chicago, Chicago, IL
James Phillips, Otolaryngology-HNS, University of Washington, Seattle WA
Victor Pikov, Research, Huntington Medical Research Institutes, Pasadena CA
Jaimie Poisson, School of Medical Sciences, University of Sydney, Lidcombe, Australia
Steven Romero, Internal Medicine, UT Southwestern Medical Center, Dallas, TX
Dimitri Ryczko, Neurosciences, Université De Montréal, Centreville, Montréal, Canada
Ashwini Saxena, Integrative Physiology, University of North Texas Health Science Center, Ft Worth, TX
Keisuke Shinohara, Pharmacology, The University of Iowa, Iowa City
Katinka Stecina, Physiology, University of Manitoba, Winnipeg, Canada
Hiroaki Tsukano, Department of Neurophysiology, Brain Research Institute, Niigata University, Niigata, Japan
David Wendt, Cardiology, Chattanooga Heart Institute, Chattanooga, TN
Daniel White, Kinesiology & Nutrition, University of Illinois At Chicago, Chicago IL
Yong Xu, Pediatrics, Baylor College of Medicine, Houston TX
Regular Members, Secondary Affiliation
Olujimi Ajijola, Cardiac Arrhythmia Center, UCLA, Los Angeles, Ca
Ligia Antunes-Correa, University of Sao Paulo M, Mansoes Santo Antonio, Campinas, Brazil
Nathan Baertsch, Integrative Brain Research, Seattle Children's, Seattle Wa
Christopher Banek, Human Physiology, University of Minnesota, Saint Paul, MN
Andre Barreto, Dept Healthy Education, Federal Univ of Sergipe, Aracaju, Brazil
Jason De Freitas, Health and Human Performance, Oklahoma State University, Stillwater, OK
Abhinav Dixit, Physiology, All India of Medical Sciences, Jodhpur, Jodhpur, Rajasthan, India
Jody Greaney, Kinesiology, The Pennsylvania State University, University Park, Pa
Walter Holbein, Anesthesiology, Mayo Clinic, Rochester, MN
Erin Howden, Institute for Exercise and Environmental Medicine, University of Texas Southwestern Med Center, Dallas, TX
Xu-Feng Huang, School of Medicine, School of Medicine, IHMRI, University of Wollongong, New South Wales, Australia
Eric Krause, Pharmacodynamics, University of Florida, Gainesville, FL
Gina Leinninger, Physiology, Michigan State University, East Lansing MI
Kathryn Pate, Biomedical Sciences, Rocky Vista University COM, Parker, CO
Supratim Ray, Centre for Neuroscience, Indian Institute of Science, Bangalore, India
Yuval Silberman, Molecular Physiology and Biophysics, Vanderbilt University School of Medicine, Nashville, TN
Michael Willers, Cardiology, Children's Heart Center, Holyoke, MA
Toshihiko Yada, Department of Physiology, Jichi Medical University, Shimotsuke, Japan

PLEASE SUPPORT NCAR FINANCES
Please help us keep our awards alive by either contributing directly to the section or assisting in recruiting a corporate sponsor.

Neural Control & Autonomic Regulation Section Michael J Brody Award Fund
A fund, established by the Neural Control & Autonomic Regulation Section of the Society to honor the memory of Dr. Michael J. Brody, distinguished Neural Control & Autonomic Regulation member. The funds will be used solely to support a Neural Control & Autonomic Regulation award to recognize outstanding research in autonomic regulation by a graduate student or postdoctoral fellow.

Neural Control & Autonomic Regulation Section Fund
Contributions to the Neural Control & Autonomic Regulation Section fund are used to support section activities, such as trainee travel awards to Experimental Biology and the annual complimentary Section Social held during Experimental Biology.

To access the online donation pages, log into your member account section on the APS home page (the-aps.org). On your member account page, there is a donate link in the left column menu. On the donation overview page that appears, scroll down to APS Section Fund, and find “Neural Control & Autonomic Regulation Section Michael J Brody Award Fund” and “Neural Control & Autonomic Regulation Section Fund”. Click on the account title to proceed to the payment page. Use IE or Safari. The site does not work well with Firefox.

NCAR LISTSERV
If you have not signed up to receive NCAR listserv messages, please do so today. We utilize this email service to send important information and announcements that need to be disseminated quickly to all members of NCAR. To join, log into your personal account (link in the left margin at http://www.the-aps.org/), and select “Update Section Affiliation/Interest Groups” While you are there, please make NCAR your PRIMARY section affiliation! Primary membership counts!
BENEFACTORS OF NCAR
Thank you to all those who have contributed in 2014 to the Neural Control & Autonomic Regulation Section Fund and Michael J. Brody Award Fund!

Sponsors

Data Sciences International

To learn more about Data Sciences International biomedical research solutions, please contact Sales@datasci.com.

ADInstruments Ltd

To learn more about ADInstruments biomedical research solutions, please contact info.na@adinstruments.com.

Patrons
Julian M. Stewart, M.D. Ph.D.
Eric Lazartigues, Ph.D.

Advocates
Rodrigo Del Rio, Ph.D.
Maximillian I. Pinkham
Robert A. Larson