EB 2012

EB 2012 will be held in San Diego, CA April 21-25. The section is sponsoring several sessions that promise to be at the forefront of endocrinology and metabolism. We look forward to seeing you there!

Section Programming and Special Events

The E&M Section will sponsor the Solomon Berson Lecture, three symposia, and two featured topics at EB. Also, don’t forget to join us for the Section Business Meeting and Awards Reception. We have also included a sneak peak of our programming (as of the time of this publication) before it's available in the official program.

Sunday, April 22, 2012

Special Event: Section Steering Committee Meeting
Time: 12:00 pm
Location: Mission Hills, San Diego Marriott

Cross Sectional Symposium: Brain Insulin: The Forgotten Metabolic Partner of Leptin?
Time: 8:00 – 10:00 AM
Location: San Diego Convention Center, Room 24
Chairs: Kamal Rahmouni, University of Iowa
Virginia Brooks, Oregon Health Sciences University

Speakers/Times:

8:00 AM Deborah Clegg, UT Southwestern
“Insulin: Your Brain Use it To Regulate Food Intake and Body Weight”
8:30 AM Alan Cherrington, Vanderbilt University
“The Importance of Brain Insulin Action to Hepatic Glucose Metabolism in the Conscious Dog”
9:00 AM Kamal Rahmouni, University of Iowa
“Sympathetic Effects of Brain Insulin: Mechanisms and
Consequences"

9:30 AM Virginia Brooks, Oregon Health Sciences University
“Brain Insulin: A Master Regulator of Baroreflex Function?”

**Symposium:** *Endoplasmic Reticulum Stress and Vascular Physio-Pathology*

**Time:** 3:30-5:30 PM
**Location:** San Diego Convention Center, Room 28B
**Chair:** Khalid Matrougui, Tulane University
Emily Wilson, Texas A&M Health Science Center

**Speakers/Times:**

3:30 PM Khalid Matrougui, Tulane University
“Endoplasmic Reticulum Stress and Microvascular Dysfunction in Hypertension”

4:00 PM Ira Tabas, Columbia University
“Macrophage Endoplasmic Reticulum Stress in Advanced Atherosclerosis”

4:30 PM Maria Trojanowska, Boston University
“The Role of ER Stress / UPR in Microvascular Endothelial Dysfunction”

5:00 PM Sonia Karabina, University of Pierre & Marie Curie (Paris)
“Unfolded Protein Response in the Vascular Wall”

**Monday, April 23, 2012**

**Featured topic:** *Novel Mechanisms for Improving Mitochondrial Efficiency*

**Time:** 8:00-10:00 AM
**Location:** San Diego Convention Center, Room 25A
**Chair:** Stephen J. Crozier, The Hershey Company

**Speakers/Times:**

8:00 AM Flip Larsen, Karolinska Institute
“Effects of Dietary Nitrate on Mitochondrial Efficiency”

8:30 AM Francisco Villarreal, University of California – San Diego
“Flavanol-induced Mitochondrial Protein Complex Formation”

9:00 AM Alfred Nuttall, Oregon Health Sciences University
Abstract # 4549 “AMPK Activation by AICAR Induces Mitochondrial Biogenesis in the Inner Ear”

9:15 AM Moises Torres-Gonzalez, University of California – San Diego
Abstract # 3021 “Mitochondrial Ogg1 Prevents Loss of mitDNA Content, Decreases Mitochondrial Fission and Apoptosis Under Conditions of Oxidative Stress in H9C2 Cells”

9:30 AM Judson Grubbs, Iowa State University
Abstract #3529 “Protein Profile in Mitochondria of Pigs Selected
for Residual Feed Intake"
9:45 AM Bhwana Agarwal, Medical College of Wisconsin
Abstract # 3435 “Isoflurane Increases Mitochondrial Free Ca++
by Attenuating the Na+/Ca++ Exchanger Activity”

**Solomon A. Berson Distinguished Lectureship of the APS**
Endocrinology & Metabolism Section Named Lecture
Time: 10:30 a.m.
Speaker: Michael Schwartz, University of Washington
Location: San Diego Convention Center, Room 20A
Topic: Physiological mechanisms underlying body weight regulation and the
pathogenesis of obesity and diabetes

Dr. Schwartz is an internationally recognized expert in physiological mechanisms underlying
body weight regulation and the pathogenesis of obesity and diabetes
(http://depts.washington.edu/metab/faculty/schwartz.htm). Major questions under investigation
in his laboratory include: (1) By what mechanism do circulating signals involved in the
regulation of body adiposity, including insulin and leptin, act in the brain? (2) Which specific
hypothalamic pathways are sensitive to the actions of insulin and leptin, and what is the
cellular basis for these actions? (3) What are the behavioral and metabolic consequences of
the actions of insulin and leptin on their hypothalamic targets? (4) What mechanism is
responsible for hypothalamic resistance to these hormones in obese individuals? (5) Do
neurocircuits involved in food intake also regulate insulin action in peripheral tissues?

**Monday E&M Sponsored Poster Sessions:**
Mitochondrial Functions
Obesity and Satiety

**Special Event:**  **Section Business Meeting and Awards Reception**
Time: 7:00 p.m.
Location: Newport Beach, San Diego Marriott

The Annual Business Meeting and Awards Reception is a great opportunity to get up to date
on Section activities and to share research and refreshments with friends and colleagues. **We
will also announce award winners for the New Investigator Award, the Virendra B. Mahesh Award of Excellence in Endocrinology, the Mead Johnson Research Award in Endocrinology and Metabolism, and Endocrinology & Metabolism Section Research Recognition Award.** Award winners will have their posters displayed for review and discussion. Please make time to attend and bring a colleague to learn more about our Section.

**Tuesday, April 24, 2012**

**Symposia:**  **Novel Roles of the Renin-Angiotensin System in Aging and Other Pathologies**
Time: 10:30 AM-12:30 PM
Location: San Diego Convention Center, Room 23
Chair: Mark C. Chappell, Wake Forest University

Speakers/Times:

10:30 AM  Christy Carter, University of Florida – Gainesville
“The Role of the Renin-Angiotensin System in Aging”
11:00 AM  E. Ann Tallant, Wake Forest University
“Therapeutic Benefit of Angiotensin-(1-7) in Cancer”
11:30 AM  Eric Lazartigues, Louisiana State University
“The renin Angiotensin System and Pancreatic Beta Cell Function”
12:00 AM  David Brenner, University of California – San Diego
“ACE2 and ANG-(1-7) in Progressive Liver Injury”

Symposia:  Kisspeptin Neurons: Central Mediator of Reproduction and Metabolism

Time: 3:30-5:30 PM
Location: San Diego Convention Center, Room 25C
Chairs: Willis K. Samson, Saint Louis University
Martin J. Kelly, Oregon Health Sciences University

Speakers/Times:

3:30 PM  Robert Steiner, University of Washington
“Kiss 1 Neurons as Central Processors for Reproduction.”
4:00 PM  Oline Ronnekleiv, Oregon Health Sciences University
“Estrogenic and Leptin Regulation of Kisspeptin Neurons”
4:30 PM  Michael Lehman, University of Michigan School of Medicine
“Neural Pathways Linking Metabolic Signals to the Reproductive Neuroendocrine System”
5:00 PM  Susan Smith, Oregon National Primate Center
“Factors Responsible for the Inhibition of Kisspeptin and GnRH During Stages of Negative Energy Balance.”

Featured topic:  Effect of Exercise and Nutritional Perturbations on Cumulative Muscle Protein Synthesis

Time: 8:00-10:00 AM
Location: San Diego Convention Center, Room 25A
Chair: Steven E. Riechman, Texas A&M University

Speakers/Time:

8:00 AM  James Fluckey, Texas A&M University
“Resistance Exercise Increases Cumulative Muscle Protein Synthesis”
8:30 AM  Benjamin Miller, Colorado State University
“A Reassessment of Mitochondrial Biogenesis During Caloric...”
Restriction using D₂O"

Kristine Wadosky, University of North Carolina
Abstract #4019 “Muscle RING finger-1 (MuRF1) inhibits IGF1-dependent Akt activation and exercise-induced cardiac hypertrophy”

9:15 AM
Paras Kumar Mishra, University of Louisville
Abstract #5418 “Exercise mitigates beta-2 adrenergic receptor dysfunction by decreasing homocysteine in diabetes”

9:30 AM
David Gundermann, University of Texas Medical Branch
Abstract #5919 “Inhibition of glycolysis and mTORC1 activation in human skeletal muscle with blood flow restriction exercise”

9:45 AM
Kevin ShimkusTexas A&M University
Abstract #8837 “Impact of chronic voluntary resistance training during recovery following hindlimb unloading on rat hindlimb muscles”

Tuesday E&M Sponsored Poster Sessions:
- Neuroendocrinology, Hypothalamus, Pituitary, Stress and Trauma Including Adrenal Gland
- Cardiovascular Endocrinology, Including Renin-Angiotensin-Aldosterone
- Reproduction and Sex Hormones
- Exercise /Nutrition and Muscle Protein Synthesis

Other Announcements

APS 125TH Anniversary at EB2012 - Help us Celebrate! Register for Opening and Closing events!

Saturday, April 21, 7:00 PM - following the Cannon Lecture by L. Gabriel Navar, Tulane University - APS will party on the North Embarcadero with The Mardells, food and drink, and games galore.

Wednesday, April 25, 6:00 PM - following the pm sessions including a lecture by Nobel Laureate Oliver Smithies – the party moves into the Marriott with food and drink, music and dancing to an APS member band – GI Distress! Plan on attending to help celebrate the Society’s founding in 1887!

Help the APS celebrate by contributing to a fund designed to make the forthcoming meeting a truly international event. The Society hopes to raise funds to bring outstanding scientists from around the world to San Diego for the celebration. In order to make that possible, the membership is invited to make a charitable contribution to the 125th Anniversary Fund.
**NIH Update at EB 2012**

Several NIH institutes will report on their research and policy initiatives during EB 2012 in San Diego. “National Institutes of Health: Programs and Policies Update from Institutes” will be presented from 2-4 PM on Tuesday, April 24 in Room 1A of the San Diego Convention Center. Drs. Susan Shurin of the National Heart, Lung, and Blood Institute (NHLBI); Judith Greenberg of National Institute of General Medical Sciences (NIGMS); Richard Nakamura of the Center for Scientific Review (CSR); and Elizabeth Wilder of the Division of Program Coordination, Planning, and Strategic Initiatives (DPCPSI) will share the latest information about research programs and policy priorities.

The session is jointly sponsored by the American Physiological Society, American Association of Anatomists, American Society for Biochemistry and Molecular Biology, American Society for Investigative Pathology, American Society for Nutrition and the American Society for Pharmacology and Experimental Therapeutics. The session chairs are APS President-elect Susan Barman and APS Science Policy Chair John Chatham.

**Ideas for EB 2013 Symposia and Features Needed!**

We URGENTLY need suggestions for symposia and featured topics for EB 2013. The deadline for receiving suggestions about symposia and featured topics has been extended to March 25, 2011. Your suggestions for symposia topics and featured topics should be sent to our joint programming committee representative, Rick Samson at: samsonwk@slu.edu. **If you suggested a session last year and it was not scheduled, please resubmit for EB 2013 and indicate that it is a resubmission.** We look forward to receiving your suggestions for these important opportunities for the Section to highlight research in Endocrinology and Metabolism.