The EB2011 in Washington, DC is rapidly approaching, and we hope that you plan on attending. This year, the Hypoxia Interest Group has scheduled two events, a Symposium and a Featured Topic, that are detailed below in this newsletter. In addition, there are a number of sessions sponsored by other sections that may be of interest and we have listed them for your convenience. We encourage you to attend as many of these section-sponsored events as possible and we look forward to seeing you in Washington.

This is the first Experimental Biology meeting with “clustered” sectional Symposia and Feature Topics. This was undertaken with the desire to make your meeting scheduling easier. Please give us feedback on what you think after the meeting.

As we have mentioned in past newsletters, we would like to establish a list of potential topics for Symposia and Feature Topics that we can propose for future EBs. Our group programs one of each per year so, naturally enough, there are usually more proposals than we can program and we would like to keep those proposals in the queue for future meetings. Lastly, we would love to have you involved in the organization of the Hypoxia group. Please email us or approach us at the meeting if you would like to get involved.

Proposals are needed for Symposia and Featured Topic sessions (our group programs one of each) for Experimental Biology 2012, which will be held in San Diego, CA, from April 21–25, 2012. Both Symposia and Feature Topics are oral sessions organized in two hour blocks. Symposia usually consists of 4 invited speakers each allotted 25 minutes for their talks. A Feature Topic usually has 1 or 2 invited speakers with four 15 minute presentations taken from submitted abstracts. Funding is allocated for both kinds of sessions. Also, each invited speaker’s registration fee is covered.

The deadline for submission is Monday, April 4th, 2011, and forms can be obtained at http://www.the-aps.org/meetings/eb.htm

Please send your completed forms to our Program Committee, Chris Wilson (cgw5@case.edu), David D. Kline, (KlineDD@missouri.edu) or Irene Solomon (irene.solomon@sunysb.edu).
**HYPOXIA INTEREST GROUP PROGRAMMING**

**Sunday, April 10, 2011**
8:00am –10:00am, Room 147A, Conv. Ctr.

**Symposium**
“Redox/Hypoxic modulation of neuronal and synaptic function”
Redox signaling in synaptic plasticity and memory. *E. Klann*
Redox control of protein misfolding and synaptic damage by S-nitrosylation. *S. Lipton*
Redox control of angiotensin II-sensitive neuronal ion channels. *M. C. Zimmerman*
Hypoxia and the dramatic consequences on neuromodulation and network functions. *J-M. Ramirez*

**Monday, April 11, 2011**
10:30am –12:30pm, Room 154A, Conv. Ctr.

**Featured Topic**
“Hypoxia-induced gene expression”
Transcriptional regulation during intermittent hypoxia. *N. Prabhakar.*
Oxygen-sensitive gene expression and neural control of oxygen supply and demand. *F. Powell*
Disruption of membrane trafficking underlies the reduction in Kv1.3 channel surface expression in T lymphocytes during hypoxia. *A. Chimote, et al.*
Intermittent hypoxia/hypercapnia alters the transcriptome of mouse coronary artery endothelial cells. *R. Douglas et al.*
MicroRNA-21 plays a role in hypoxia-mediated pulmonary artery smooth muscle cell proliferation and migration. *J. Sarkar et al.*

**OTHER SESSIONS OF INTEREST**

**Sunday, April 10th:**
8:00 am–10:00am, *Salt, Angiotensin II, Superoxide, and Endothelial Function*, Convention Center, Room 146B
10:30 am–12:30 pm, *Respiratory Control Disorders*, Convention Center, Room 145A
3:15 pm–5:15 pm, *Peripheral:Central Chemoreceptor Interactions*, Convention Center Room 147B

**Monday, April 11th:**
8:00 am–10:00 am, *Mesenchymal and Endothelial Progenitor Stem Cells: Novel Treatment Strategies for Lung Injury*, Convention Center Room 146B
10:30 am–12:30 pm, *Redox Regulation of Mitochondrial Function in Health and Disease*, Convention Center Room 147B
3:15 pm–5:15 pm, *Pathobiology of Oxygen Exposure During Development: Bedside to Bench and Back to Bedside*, Convention Center Room 147A

**Tuesday, April 12th:**
8:00 am–10:00 am, *Multiscale Neuronal Control of Respiratory Function: Bridging Gene Networks to Neural Networks*, Convention Center Room 146B
10:30 am–12:30 pm, *Julius H. Comroe, Jr. Distinguished Lectureship of the APS Respiration Section*, Convention Center Room 146A
3:15 pm–5:15 pm, *Molecular Diversity in the Regulation of Lung Tight Junctions*, Convention Center Room 145A

**Wednesday, April 13th:**
10:30 am–12:30 pm, *Inflammation, Oxidative Stress and Vascular Function*, Convention Center Room 154B
10:30 am–12:30 pm, *Neural-glial Interactions in Central Respiratory Control and Spinal Plasticity*, Convention Center Room 146C
3:00 pm–5:00 pm, *Recent Concepts in Redox Signaling in the Cardiovascular System*, Convention Center Room 154B