Happy Fall!

As football season is in full swing (my condolences to those who have Jamaal Charles on their fantasy team), it is also time to start planning for EB 2016 in sunny San Diego! The deadline for abstract submission is rapidly approaching. Our Program Committee has worked hard to put together a terrific meeting. This issue of the newsletter includes a list of the sessions sponsored by our section. We especially welcome abstracts from trainees and early-stage scientists, and have included information on several award opportunities from the Section, APS and AJP-Lung. In particular, we have initiated a Poster Presentation Award program within the section, and all posters presented by trainees in one of the Respiration Section-sponsored poster sessions are eligible. A list of the EB 2015 winners appears on page 8. Congratulations!

Also in this newsletter issue, you will meet members of the Section’s Steering Committee. In the coming months, the Nominating Committee will be soliciting section members to be nominated to serve on APS committees, which cover a wide range of topics, including Animal Care and Experimentation, Science Policy, Education, Women in Physiology and Membership, just to name a few. If you would like to get more involved with APS activities, I encourage you to take a look at the committees (http://www.the-aps.org/mm/hp/Audiences/APS-Committees) and consider submitting a nomination (self-nomination or through our Nominating Committee). In addition, as always, we are on the lookout for enthusiastic section members interested in becoming more involved with section activities, so please do not hesitate to get in contact with one of us, via email or at the annual meeting and introduce yourself. We have lots of work to do, and would welcome hearing from you.

I look forward to seeing you all in San Diego in the spring!
Call for abstracts

Once again, it is time to submit your abstracts for EB2016. The abstract submission deadline is **November 5th, 2015**, which is rapidly approaching. To facilitate the process of identifying Respiration Section related research for submission of your abstracts, the abstract topic categories are listed below. Note that Respiration Section categories are tagged with either Control of breathing or Lung physiology, except for those associated with the Featured Topics sessions, which are identified by the title of the Featured Topic. This year we will have a trainee poster award competition.

**Trainee and Early Career Cross Sectional Featured Topic**
Sex Differences in Health and Disease (Details on page 9)

**Featured Topics**

- 1370-APS Environmental Exposures, Oxidative Stress, and Lung Disease (Waters/Chatterjee)
- 1371-APS Inflammation and Its Influence on Lung Function and Respiratory Control (Wilson/Wilson)
- 1372-APS Intermittent Hypoxia: Respiratory and Cardiovascular Control and Beyond (Solomon/Fields)
- 1373-APS Redundancy and Plasticity in Respiratory Control (Bavis/Nichols)

**Abstract Topic Categories**

- 1375-APS Control of breathing: connectivity, neuromodulation and neurotransmission
- 1376-APS Control of breathing: chemoreception
- 1377-APS Control of breathing: development
- 1378-APS Control of breathing: integrated responses
- 1379-APS Control of breathing: respiratory motoneurons and muscles
- 1380-APS Control of breathing: respiratory plasticity
- 1381-APS Control of breathing: rhythm generation
- 1382-APS Lung physiology: airway epithelial cell biology
- 1383-APS Lung physiology: airway responsiveness and smooth muscle cell biology
- 1384-APS Lung physiology: alveolar epithelial cell biology
- 1385-APS Lung physiology: biomechanics, surfactant and gas exchange
- 1386-APS Lung physiology: development and plasticity
- 1387-APS Lung physiology: endothelial cell biology
- 1388-APS Lung physiology: fluid balance
- 1389-APS Lung physiology: pulmonary hypertension
- 1390-APS Lung physiology: vascular smooth muscle cell biology, vascular regulation, and hypoxia

Interested in helping with Section Activities?
A number of committees could use your help. Please contact the Chair for details, Larissa Shimoda lshimod1@jhmi.edu

Want to get involved at the Society level?
Nominations for APS Committees are submitted in late fall. Please contact our Nominating Committee Co-Chairs for more details.

Donna Cioffi dlcioffi@southalabama.edu Carlos Mantilla mantilla.carlos@mayo.edu

Nomination forms at: [http://www.the-aps.org/mm/hp/Audiences/APS-Committees/nominations](http://www.the-aps.org/mm/hp/Audiences/APS-Committees/nominations)

2016 Poster Competition
In 2016 we will once again have a Trainee Poster Award competition. Details will be sent out in the next newsletter.
Dr. Sadis Matalon, Editor-in-Chief of the American Journal of Physiology-Lung Cellular and Molecular Physiology, is soliciting nominations for the “Best original research paper published in AJP-Lung between 2013-2015 by a junior author (Assistant Professor, Instructor, Post-doctoral fellow or graduate student.).

The nominee must submit a nomination stating the importance of this paper in the field as well as the contributions of the first author to Dr. Sadis Matalon, Editor AJP-Lung (sadis@uab.edu) with a copy to Ms. McEver (amcever@emory.edu) by December 1, 2015. All applications will be reviewed by the Editor and Associate Editors who will chose the winner by secret ballot. The winner will receive $500 and a certificate of appreciation at the EB 2016 meeting.

The Hermann Rahn award for excellence in Pulmonary Research
Sponsored by Dr. Sadis Matalon

Dr. Sadis Matalon, Editor-in-Chief of the American Journal of Physiology-Lung Cellular and Molecular Physiology, is soliciting nominations for the 2016 Hermann Rahn awards, in honor of the 36th APS President (1963-1964), a leader in the field of respiration physiology.

Nominees must be either first or senior author in a paper published in the American Journal of Physiology-Lung Cellular and Molecular Physiology since 2013 and must have been a trainee (graduate student or post-doctoral fellow), or junior faculty (Instructor or Assistant Professor) when the paper was submitted. Criteria for selection include the importance of the work to the field, the contribution of the nominee to this project and his trajectory as a research scientist.

Please submit nominations by December 1, 2015 to Dr. Sadis Matalon, (sadis@uab.edu) with a copy to Ms. McEver (amcever@emory.edu). The THREE winners will receive $250 each and a certificate of appreciation at the EB 2016 meeting.

The Usha Awards
Sponsored by Dr. YS Prakash

Usha means “dawn” in Sanskrit

Dr. YS Prakash, Deputy Editor of the American Journal of Physiology-Lung Cellular and Molecular Physiology, is soliciting nominations for the Usha awards. The nominee must be a promising trainee (undergraduate or graduate student, or a research fellow (<5 years since being granted the terminal degree (e.g. PhD, MD, DO, DVM), and should have contributed a 1st author abstract to the Respiration Section of the APS for presentation at the APS. Criteria for selection will include the level of excitement regarding the nominee’s future, contribution by the nominee to the work, and the importance of the work to the field. Nominees are to be selected by the Respiration Section of the APS. All applications must be submitted by December 1, 2015. The TWO winners will receive $500 each and a certificate of appreciation at the EB 2016 meeting.

apply here :

https://apps.the-aps.org/awardapps/login/index.cfm
Respiration Section Trainee Events at Experimental Biology 2016

The Respiration Section Committee would like to thank trainee representative Nichole Nichols for her service to the group and welcome her replacement, Kristi Streeter who will be taking over as the trainee representative on January 1st.

7th Annual Trainee Highlights Breakfast

Please join us for the 7th Annual Trainee Highlights Breakfast at EB 2016. This event will be held Sunday April 3, 2016 from 7:30-10:00AM at the Marriott Marquis Marina Hotel (room TBD), with presentations starting at 8:15AM. The Trainee Highlights Breakfast provides an opportunity for Respiration Section faculty and trainees to network and provides a platform for trainees to present their work. Previous speakers have expressed that this is an excellent opportunity to showcase their research and generate interest prior to the poster sessions. This event is sponsored by the Respiration Section, donations from companies and Respiration Section members, and the Respiration Section Trainee Endowment Fund. The Respiration Section Trainee Endowment Fund was created to allow us to continue to sponsor this event in perpetuity. With the help of APS who has matched all donated funds, we are currently at $48,000--only $2,000 away from our goal! Please consider donating to this fund—APS will match your donation, so for every $1 donated, our fund makes $2. You can make a donation by logging into your APS account and making a donation to the Trainee Endowment Fund, or you can make a donation at the Trainee Highlights Breakfast.

EB2016 Trainee Award Opportunities

Trainees are encouraged to apply for the Respiration Section sponsored awards including the Research Recognition Award and the Respiration Section New Investigator Award. See page 3 for more details. Recipients of these awards will receive a monetary award, certificate, complimentary Respiration Section Banquet ticket, and complimentary registration to the EB meeting. Application materials must be completed by November 12, 2015. In addition, please consider applying for the Best Research Paper published in AJP-Lung by a junior investigator with a deadline of November 12, 2015, the Hermann Rahn Award for Excellence in Pulmonary Research with a deadline of December 1, 2015, or the Usha Awards with a deadline of December 1, 2015. More information about these awards can be found at http://www.the-aps.org/mm/awards/sections/Resp. In addition to these awards, numerous trainee award opportunities are available through the APS website, award descriptions and deadlines can be found at http://www.the-aps.org/mm/awards.
Advocacy Opportunities

While FASEB and the APS are excellent advocates for science, it is critical that our elected representatives hear the voices of voting constituents as well. Our representatives need to know how we are impacted by issues such as decreased funding for research and an increase in government imposed regulations. Fortunately, there are several relatively easy things we each can do to increase awareness of the impact of these and other issues on our research careers.

The APS and FASEB have excellent resources to help scientists make their case for support of scientific research. Please take a moment to visit these sites and learn about ways to contact your Members of Congress. With the upcoming midterm elections Members of Congress are campaigning in their home districts, so now is a particularly good time to look for local opportunities for advocacy.

APS:  http://www.the-aps.org/mm/SciencePolicy/Advocacy/Advocacy-Resources


To send an email message, click on “legislative action center” on the left and enter your zip code to get started. You can take advantage of their suggested messages, or craft your own.

Once you have made your case to your Members of Congress, help friends and family members appreciate how the research environment has been impacted by reduced research support. This can be accomplished by sharing your own experiences using specific examples that are relatable: Is there important research you want to do but can’t? Have you had to cut back on highly-trained staff? Have other labs in your department closed because funding was not available? Or you can share the following links to a series of stories that aired on National Public Radio, and encourage them to contact their Members of Congress as well.

http://www.npr.org/blogs/health/2014/09/09/345289127/when-scientists-give-up?&refresh=true


Early Career Advocacy Fellowship

If you received your PhD in the last ten years and are interested in learning firsthand about how the APS advocates for scientists, then you should apply for a 2015-2016 Early Career Advocacy Fellowship.

More information, including the terms of award, eligibility criteria and how to apply, is available on the APS website:

http://www.the-aps.org/mm/SciencePolicy/Advocacy/Advocacy-Fellowship

It would be great to have additional representation from the Respiration Section on this committee. Applications are due by November 13, 2015.
MEET YOUR STEERING COMMITTEE

DONNA CIOFFI, NOMINATING COMMITTEE CO-CHAIR

Donna Cioffi was born and raised on Long Island, NY. She completed her B.S. and M.S. degrees in chemistry at the University of Connecticut and Yale University, respectively. After working in industry in Connecticut for fifteen years, Donna and her husband migrated south to the University of South Alabama (USA) where she was able to fulfill a life-long dream of earning her Ph.D. After her Ph.D. and post-doctoral training with Dr. Troy Stevens in pulmonary endothelial biology, Donna decided to make USA her home and joined the faculty in 2009 in the Department of Biochemistry and Molecular Biology.

Donna became a member of the Steering and Nominating Committees last year and is very excited to become actively involved with the organization. She loves to spend time with her eight cats and at the end of a long day finds nothing more relaxing than walking with them in the woods and fields.

CHRISTOPHER WATERS, COMMITTEE ON COMMITTEE REPRESENTATIVE

Chris Waters was born in Chattanooga, Tennessee, where he grew up and then graduated from the University of Tennessee at Chattanooga majoring in Chemical Engineering. He then studied particle distribution in flowing blood while earning a Master’s degree in Biomedical Engineering at the University of Miami in Florida. He then moved back to Tennessee to study epidermal growth factor at Vanderbilt University and obtained his PhD in Biomedical Engineering in 1991. After a one year post doc at Vanderbilt, he joined the Departments of Anesthesia and Biomedical Engineering as an Assistant Professor at Northwestern University in Chicago. After 7 years he returned to Tennessee to join the Department of Physiology at the University of Tennessee Health Science Center in Memphis, where he now serves as a Professor and Vice Chair.

A member of the APS since 1994, Chris served as the co-chair of the Respiration Section Program Committee from 2011 to 2015, and he currently serves on the Steering Committee and is the Section’s representative on the Committee on Committees. When not in the lab or teaching, Chris enjoys nice meals with family and friends, exercising, and traveling to interesting places.
The Career Opportunities in Physiology Committee supports a number of APS programs to foster the career development of physiologists of all ages:

**Excellence in Professional (MD/DO) Student Travel Awards for EB 2016**
Did you host a great MD or DO student in your lab this summer? Are they submitting a first author abstract to Experimental Biology? If so, you'll want them to apply this award! It provides medical student (not MD/PhD) first-authors with up to $1,800 in reimbursement for travel and advanced meeting registration for Experimental Biology. This award is designed to foster the student’s interest in research by aiding in their participation in the Experimental Biology meeting, along with gaining valuable advice from MD/DO “meeting mentors”. **Applications are due one week after the Experimental Biology abstract deadline in November.** See [http://www.the-aps.org/md-do](http://www.the-aps.org/md-do) for more details.

**APS Video Contest – Help Spread the Word!**
APS Presents…Phantastic Physiology Voyage: “Function Follows Form” video contest to encourage undergraduate and graduate students to creatively connect with physiology and engage them with the broader public through a short video contest. Videos should creatively demonstrate and/or explore a specific physiological function in five minutes or less (including credits). The target audience is the general public. The video can be staged as a short play, commercial, news broadcast, talk show, music video, documentary etc. No professional assistance can be provided to produce the video in any manner. The first place prize is $750 plus up to $1000 in travel support to Experimental Biology to collect the award. There is also a $250 viewer’s-choice award. Follow the link for more information and to view previous winners: [http://www.the-aps.org/video](http://www.the-aps.org/video). **Entries are due December 15.**

**Science Fair Prizes**
Know of a science fair near you? The APS has FREE prizes to give away! Just fill out a simple online request form ([http://bit.ly/1Pxpf5p](http://bit.ly/1Pxpf5p)) and APS members can present one award per science fair. Student winners receive an APS t-shirt and a certificate for the best physiology project. The teachers of the winning students will receive an APS teaching resource packet. Follow this link for further details: [http://bit.ly/1NgXJe2](http://bit.ly/1NgXJe2)

**Summer Undergraduate Research Fellowships**
It’s never too early to start thinking about next summer! Our committee sponsors awards to encourage undergraduate students to pursue a career in research, providing a $4000 stipend and $1300 in Experimental Biology travel support to the student, and a $300 grant to the APS member’s lab. Awards are available both for students with little or no prior research experience (Undergraduate Summer Research Fellowship or UGSRF – see [http://www.the-aps.org/ugsrf](http://www.the-aps.org/ugsrf)) or significant exposure to research already (>9 months; Undergraduate Research Excellence Fellowships or UGREF – see [http://www.the-aps.org/ugref](http://www.the-aps.org/ugref)). The APS sponsors 3 additional summer research programs targeting underrepresented undergraduate students. See [http://www.the-aps.org/summerresearch](http://www.the-aps.org/summerresearch) for additional details and opportunities. **Applications are due February 1.**
Respiration Section Poster Awardees Experimental Biology 2015

Undergraduate Student Awardees
  Rebecca Kimyon, University of Wisconsin
  Michael Vincen-Brown, Idaho State University
  Taylor Shuster, University of Wisconsin

Graduate Student Awardees
  Obaid Khurram, Mayo Clinic
  Madeline Puissant, Medical College of Wisconsin
  Cécile Baldy, Université Laval
  Clarissa Muere, Medical College of Wisconsin
  Joshua Sheak, University of New Mexico
  Ayed Allawzi, Brown University
  Andrew Little, University of Vermont
  Michael Sugiyama, University of Toronto
  Eboni Chambers, Brown University

Postdoctoral Awardees
  Zankhana Master, Johns Hopkins University
  Marina Cholanian, University of Arizona
  Dheeraj Soni, University of Illinois at Chicago
  Arun Prakash, University of California San Francisco

Poster Award Sponsors
  The Respiration Section would like to thank the following sponsors for their support of the 2015 Experimental Biology poster award competition.

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EB2016: Trainee and Early Career Cross Sectional Featured Topic

Trainee EB2016 Cross Sectional Symposium

The APS Trainee Advisory Committee (TAC) will host the second annual Trainee and Early Career Cross-Sectional Featured Topic, at EB2016, entitled “Sex Differences in Health and Disease.” This special session will feature presentations by graduate students, postdoctoral fellows, and early career scientists (within 5 years of faculty appointment or government/industry equivalent) and will be held on Monday, April 4, 2016, 8:00-10:00 AM at the San Diego Convention Center. To submit an abstract for this session, please apply though the APS Awards site https://apps.the-aps.org/awardapps/index.cfm. When prompted for the award category, select “EB2016 Trainee Featured Topic: Sex Differences in Health and Disease” from the dropdown menu. You will be required to provide a copy of the abstract you submitted (first author or senior author) to an APS-sponsored topic category at 2016 Experimental Biology. Please note this will NOT affect your abstract submission to your section’s featured topics. Moreover, you are still required to submit your abstract to your section by the November 5th deadline. Abstract submissions for the TAC Featured Topic will be accepted through November 25th, 2015.

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