Cardiovascular Section

SPRING 2018

Get involved in CV Section committees!

The Steering Committee is seeking nominations to fill the following committee membership vacancies:

**Committee (number of vacancies):**
- Awards (5)
- Communications (3)
- Development (2)
- Fellowship (3) - *must be Section Fellow*
- Nominating (5) - *elected*
- Trainee (1)
- Joint Programming Committee Rep (1)

Committee details and member responsibilities can be found at: [http://www.the-aps.org/mm/hp/Audiences/Sections/Sample-Category-1/SOPCVS10web.pdf](http://www.the-aps.org/mm/hp/Audiences/Sections/Sample-Category-1/SOPCVS10web.pdf)

If you are interested in nominating someone (including yourself), please submit a completed Committee Nomination form ([http://bit.ly/2nPBofu](http://bit.ly/2nPBofu)) and current CV, directly to Nominating Committee Chair Shawn Bender ([benders@missouri.edu](mailto:benders@missouri.edu)). You may be nominated for more than one CV Section committee and submit a single Nomination form. Ask Shawn to send you a form today.

**Deadline for nominations is Friday, March 30, 2018**
Dear Members of the Cardiovascular Section,

April is rapidly approaching, and I look forward to seeing all of you in San Diego for EB 2018, April 21-25. The CV Section has put together a superb program of Award lectures, symposia, featured topics, and poster sessions. The CV Sponsored Symposia and Featured Topics sessions are listed later in this newsletter. In addition, the CV section will have its annual Trainee Reception and Mixer (6:00-7:00 PM) on Monday evening, April 23, 2018 at the San Diego Central Library, a location that has received multiple awards for its architectural features and design. This will be followed by our annual Awards Banquet (7:00-10:00PM). If you haven’t already purchased your tickets for this event, you can do so at the following link:

https://store.the-aps.org/Product/viewproduct/?ProductId=5149587

The CV Section has a series of awards that are presented at Experimental Biology and I encourage all section members to attend the sessions associated with these awards. We sponsor two major awards: the Berne Lecture and the Wiggers Award.

The Berne Lecturer for EB 2018 is Dr. Jason Yuan, Departments of Medicine and Physiology University of Arizona College of Medicine, who will speak on “Mechanisms of Pulmonary Vascular Disease: Pathogenic Role of Ion Channels”. This presentation will be on Tuesday, April 24rd at 3:30 pm in Room 27 of the San Diego Convention Center.

The Wiggers Awardee for EB 2018 is Dr. Curt Sigmund, Professor and Head, Department of Pharmacology, University of Iowa, College of Medicine. His presentation, “PPARγ-dependent pathways protect the vasculature” and Featured Topic will be made on Monday, April 23rd at 3:30-5:00 PM in Room 22 of the San Diego Convention Center.

In addition to the Berne and Wiggers Awards, the CV Section also co-sponsors the Kaley Award along with the Microcirculatory Society, Inc. This year’s Kaley Awardee is Dr. Richard Roman, Professor and Chair, Department of Pharmacology, University of Mississippi Medical School, who will speak on “20-HETE, vascular dysfunction, hypertension and susceptibility to kidney disease and impaired cognitive function”. His presentation and Featured Topic will be Sunday, April 22, 2017, 3:30-5:00 PM, Room 28DE, San Diego Convention Center. Additional awards are listed below under the Awards Committee Report.
As noted above, we will have the CV Section Mixer/Banquet at the San Diego Central Library (https://www.sandiego.gov/sites/default/files/legacy/public-library/pdf/newcentralfactsheet.pdf), 330 Park Blvd, San Diego, CA 92101 on Monday, April 23. Limited tickets may be available on a first come basis at the APS office located in the Marriott Marquis Hotel. The trainee only reception will be from 6:00-7:00 pm followed by a reception at 7:00 pm and food service at about 7:45 pm. Trainee awards will be made about 30 min after food service begins. I look forward to seeing everyone there!

I would like to encourage every member of the CV Section to donate to the CV Section’s Endowment fund. The APS matches every dollar donated up to $25,000, effectively doubling your contribution. The CV Section Endowment will be used to support Trainee Awards. Every dollar counts, so even small donations are welcome. We greatly appreciate your generosity. Here is a link where you can donate online:


I look forward to seeing everyone in sunny San Diego! Safe travels!

Sincerely,

William F. Jackson, Ph.D., FAHA, FCVS
Chair APS CV Section

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Message from the Secretary-Treasurer

Luis A. Martinez-Lemus, D.V.M., Ph.D.
University of Missouri
martinezlemusl@missouri.edu

Hello Everyone! I hope you are as ready as I am for the Spring to come. I’m looking forward to great weather and a fabulous Experimental Biology meeting in San Diego. Part of that fabulous experience will be seeing you all at our CV Section Mixer/Dinner, which this year will be held at the beautiful San Diego Central Library. The Library is within walking distance from the Convention Center. We will start the banquet with a mixer for trainees at 6:00pm and will follow with reception at 7:00 and dinner starting at 7:45pm. Remember that attending the banquet is a great opportunity to establish collaborations and celebrate the scientific achievements of our fellow CV section members. Thank you very much to all our sponsors including ADInstruments, FujiFilm, VisualSonics, DSI and the Department of Medical Pharmacology and Physiology at the University of Missouri.
Message from CV Section Programming
Marielle Scherrer-Crosbie, M.D., Ph.D., FCVS
and Anne Dorrance, Ph.D. co-Chairs
marielle@crosbie.com and dorrance3@msu.edu

We’ll have an exciting program for the cardiovascular section at Experimental Biology 2018!

Look for:

- the Robert Berne Distinguished Lectureship of the APS CV section- Mechanisms of Pulmonary Vascular Disease: Pathogenic Role of Ion Channels by Dr. Jason Yuan of the University of Arizona

- the Kaley Award Featured Topic - Cerebral Vascular Dysfunction and Impaired Cognitive Function, chaired by Dr. Richard Roman from the University of Mississippi

- the Wiggers Award Featured Topic - Protective Mechanisms in the Vasculature, chaired by Dr. Curt Sigmund from the University of Iowa

- a *new* Young Investigator Symposium (chairs Goulopoulou/Belin de Chantermerle) with 3 predoctoral and 3 post-doctoral finalists; winners announced at the CV banquet!

- the AJP Heart and Circulatory Physiology Editors’ Choices Symposium (chairs Zucker/Lindsey), which returns to great acclaim

Enjoy featured topics and symposia on the latest findings in important heart and vascular topics:

**Symposia:**

- The Vasculome: An Integrated Exploration of Vascular Reactivity, Lineage, and Specialization (chairs Galis/Yin)

- Of Mice and Men: What have we really learned about the regulation of coronary vascular function in health and disease? (chairs Phillips/Goodwin)
- **Chemotherapy** Induced Vascular Toxicity - Do small things matter? (chairs Beyer/Croce)

- **Brown adipose tissue** and cardiovascular function: Insulin resistance, vascular tone, and cardioprotective effects (chairs Stanford/Scherrer-Crosbie)

- **Steroid receptor signaling** in cardiovascular health and disease (chairs Hamblin/Clayton)

**Featured Topics:**

- **Regulation of Blood Flow** in Health and Disease (chairs Vahagn/Ohanyan)

- **Mechanotransduction** in Cardiovascular function (chairs Thodeti/Lindsey)

- Novel Discoveries in **Vascular Physiology** (chairs Earley/Jaggar)

- **Post-translational modifications** in cardiovascular disease (chairs Scott/Kohr)

- Role of the **microbiome** in cardiovascular disease (chair Buys)

- **Innate and Adaptive Immunity** in Cardiovascular Physiology (chairs Madhur/Cornelius)

- **Endothelial cell contraction or retraction** (insights into barrier function and permeability (chairs Webb/Wenceslau)

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**Message from the Trainee Committee Chair**

**Kristine Y DeLeon-Pennell, Ph.D.**

*University of Mississippi Medical Center*

[kdeleon@umc.edu](mailto:kdeleon@umc.edu)

Greetings Trainees,

I hope to see you all in San Diego for EB 2018. Please mark your calendars for the following EB 2018 trainee events:

- CV Section Young Investigator Symposium and Outstanding Trainee Awards
- CV Section Trainee Reception and CV Section Banquet
- APS Trainee Symposia

**This year will be the inaugural year for the CV Section Young Investigator Symposium.** I highly recommend all of CV section to attend and support those trainees that were chosen to compete for the Outstanding Trainee Awards. This symposium will be held on Monday, April 23, 2018 — 1:30 PM - 3:00 PM. Winners will be announced at the CV section banquet.
Attend the Trainee Reception at the CV Section Awards Banquet at EB 2018
The CV Section Awards Banquet will be held at the San Diego Central Library on Monday evening, April 23. The Trainee Reception will begin at 6:00pm -- an excellent opportunity for you to meet other CV Section trainees.

Trainee Symposia: “Do it again: How to achieve rigorously reproducible research”
The APS Trainee Advisory Committee sponsored symposium will be divided into three separate sessions: 1) Sunday, April 22, 2018 — 7:00 AM - 8:00 AM, 2) Monday, April 23, 2018 — 7:00 AM - 8:00 AM, and 3) Tuesday, April 24, 2018 — 7:00 AM - 8:00 AM. Each speaker will address a key topic including: 1) Experimental Design, 2) Data Recording and Analysis, 3) Publishing and Results, and 4) Data Management and Storage. I highly encourage you all to attend.

Message from the Career Opportunities in Physiology Committee
Kelly Anne Hyndman, Ph.D.
The University of Alabama at Birmingham
kellyhyndman@uabmc.edu

The Career Opportunities in Physiology Committee supports a number of APS programs to foster the career development of physiologists of all ages:

EB Symposium: “Hallmarks of and ground rules for productive collaborations in science”
Join us Sunday, Monday and Tuesday at 7:00am-8:00am in the San Diego Convention Center, Room 25B for a light breakfast and “nuts and bolts” series of discussions on collaborations. Specific questions panelists will discuss include: How do I establish and maintain a successful collaboration?; What does communication and data sharing look like in a productive collaboration?; What does a ‘typical’ collaboration look like and entail?; How are intellectual property rights and authorship managed across collaborations? Each day will feature different speakers and their perspectives on these topics. Visit http://www.the-aps.org/collaborations-in-science for more information.

Experimental Biology Undergraduate Orientation and Poster Sessions
Open to all undergraduate students attending EB, the Undergraduate Orientation session serves as a primer to help the students get the most out of their EB experience, and includes award presentations for various APS-sponsored undergraduate research programs. This will be held at the Marriot Marquis & Marina (room TBA) from 3:30-5:30pm on Saturday, April 21. There is also a special poster session for undergraduate students at EB, held from 4:00-5:30pm (undergrad presenters must arrive by 3:00pm to hang posters) on Sunday April 22 in the San Diego Convention Center, Sails Pavilion – please stop by and meet the next generation of physiologists!
Positively Influence a Future Physiologist at EB 2018
Volunteer APS member hosts (PIs, postdocs or graduate students) are needed to guide local high school students and teachers around the EB exhibits and posters on Monday, April 23, from 11 a.m. to 1:30 p.m. Each year, students say this is their favorite part of the teacher-student workshop day.

Follow the link: https://www.surveymonkey.com/r/HighSchoolStudentTeacherTourGuideEB2018

APS Video Contest – VOTE NOW!!
Each year we encourage undergraduate and graduate students to creatively connect with physiology and bring it the broader public through a short video contest. This year we have 9 videos and it is time to vote for the viewer’s choice award – YOU be the judge! The video with the most views before April 21 wins a $250 prize! To view this year’s entries, go to: http://bit.ly/1nmGEWf

The APS Local Undergraduate Research Award in Physiology (LURAP)
LURAP allows APS Members to recognize excellence in physiology research by undergraduates at their home institutions. The award fosters interest in physiological research for undergraduates, encourages them to continue with physiological studies, and provides networking with APS members at their home institutions. The award package includes a certificate, an APS t-shirt, and a free one-year undergraduate membership. Visit www.the-aps.org/lurap for more information.

Message from AJP-Heart and Circulatory Physiology
physiology.org/journal/ajpheart
Irving Zucker, Ph.D., izucker@unmc.edu
Kara Hansell Keehan, khkeehan@verizon.net

READ
Have read the latest issue of AJP-Heart and Circulatory Physiology? With cutting-edge cardiovascular research articles and insightful reviews on integrative cardiovascular physiology, vascular biology, cell signaling, metabolism, exercise, cardiac excitation and contraction, and microcirculation, there is sure to be something for everyone. Check out the new issue of AJP-Heart and Circ on our *new website*: http://www.physiology.org/journal/ajpheart

DOWNLOAD
New Guidelines in Cardiovascular Physiology -- *just published* in January 2018!
Guidelines for Measuring Cardiac Physiology in Mice
http://www.physiology.org/doi/10.1152/ajpheart.00339.2017

Guidelines for Authors and Reviewers on Antibody Use in Physiology Studies
http://www.physiology.org/doi/10.1152/ajpheart.00512.2017
Guidelines for Experimental Models of Myocardial Ischemia and Infarction
http://www.physiology.org/doi/10.1152/ajpheart.00335.2017

WATCH
Take a guided tour of the Table of Contents of every issue with Editor in Chief Dr. Irv Zucker on the AJP-Heart and Circ YouTube channel. From the Editor’s Desk Table of Contents Highlights Videos: https://www.youtube.com/channel/UC5YOt0nplkcJthLKQTskFgA

SUBMIT
Easy online submission with NO submission fees! https://ajpheart.msubmit.net

Call for Papers on Right Ventricular Physiology in Health and Disease -- Deadline June 30, 2018
http://www.physiology.org/ajpheart/right-ventricular-physiology

Call for Papers on Cancer Therapy Induced Cardio Vascular Toxicity -- Deadline June 30, 2018
http://www.physiology.org/ajpheart/cancer-therapy-induced-cardio-vascular-toxicity

Call for Papers on Sex Differences in Cardiovascular and Cerebrovascular Physiology, Disease, and Signaling Mechanisms-- Deadline June 30, 2018
http://www.physiology.org/ajpheart/sex-differences-cardiovascular-cerebrovascular-physiology

LISTEN
AJP-Heart and Circ has produced 200+ author interview podcasts that have been downloaded over 48,000 times. Have you listened lately? http://ajpheart.podbean.com

Podcast: NRG-1 Inhibits Macrophage Activation During Tissue Fibrosis
Does neuregulin-1 (NRG-1) directly affect macrophages present during the inflammatory phase of cardiac fibrosis?
http://ajpheart.podbean.com/e/nrg-1-inhibits-macrophage-activation-during-tissue-fibrosis/

Podcast: Chinese - English Language Podcast on Differential Cardiac Remodeling in TAC vs AR
What fascinating findings are presented on the differences between pressure overload and volume overload induced cardiac hypertrophy?

Podcast: Update on Hormone Therapy Trials
Did the publication of the Women’s Health Initiative (WHI) in 2002 lead to assumptions that may prevent menopausal women from being properly treated?
http://ajpheart.podbean.com/e/update-on-hormone-therapy-trials/

Podcast: Aging, Exercise, and Endothelial Cell Senescence
Can regular aerobic exercise diminish the damaging effects of aging on the vascular system by improving the health of vascular endothelial cells?
http://ajpheart.podbean.com/e/aging-exercise-and-endothelial-cell-senescence/
REVIEW
CV Section Trainees: Are you interested in reviewing for AJP-Heart and Circ as an early career reviewer? Here’s how:
1) Create a profile @ https://ajpheart.msubmit.net with your current contact information and be sure to add 5 – 7 expertise terms to the user-defined search terms field.
2) Already have a profile? Login and update your profile with 5 – 7 current expertise terms.
3) Email our editorial team and let us know you are interested in receiving newsletter updates from AJP-Heart and Circ (khkeehan@verizon.net)

CONNECT
Join the conversation @ajpheartcirc and Facebook.com/AJPHearlandCirc

Did you know you can now update your AJP-Heart reviewer/author profile with your own Twitter handle? Login to https://ajpheart.msubmit.net and click “Modify Profile/Password.” Scroll to the bottom of your profile screen and insert your Twitter handle in the Twitter handle box. Click modify profile/continue to save.

Message from the Communications Committee
Jerome Breslin, Ph.D.
University of South Florida
jbreslin@health.usf.edu

Four Ways to Keep Up to Date with CV Section News Every day!

APS Connect
Facebook
LinkedIn
CV Section Website
http://connect.the-aps.org/home
https://www.facebook.com/apscvsection/
https://www.linkedin.com/groups/164204
http://www.the-aps.org/mm/hp/Audiences/Sections/Sample-Category-1

Network and Stay Connected:

- AJP: Heart Updates
- EB Deadlines
- Trainee Initiatives
- Get Involved!
- Become a CV Section Fellow
- NHLBI Research Updates
- CV Section Awards
- APS CV Section
Message from the Awards Committee Chair
Farah Sheikh, Ph.D.
*University of California at San Diego*
[fasheikh@ucsd.edu](mailto:fasheikh@ucsd.edu)

Please remember that in addition to the junior investigator awards, CV Section also has the following:

- The Carl J. Wiggers Award is presented to a scientist who is a Fellow of the Cardiovascular Section of the APS, has made outstanding contributions to cardiovascular research throughout their career, has been an active and committed member of the section, and will attract outstanding new members to the Cardiovascular Section.

- The Robert M. Berne Distinguished Lectureship is presented to an emerging leader in cardiovascular research whose current research is particularly stimulating, such that the presentation of this work would contribute to interest in, and growth of, the Cardiovascular Section.

- The Gabor Kaley Lectureship/Symposium is a joint initiative of the American Physiological Society (APS) and the Microcirculatory Society (MCS). This symposium reflects Dr. Gabor Kaley’s contributions and interests in cardiovascular physiology that embodied a particular focus on the microcirculation. Awardees are selected by a joint committee comprised of APS and MCS members.

[Click here for more detail on CV Section Awards](#)
A special thank you to our sponsors!

Department of Medical Pharmacology and Physiology
University of Missouri