A MESSAGE
FROM THE CHAIR

Greetings from CaMPS,

First, I would like to thank you for electing me as your new Chair! You might not know (or remember), but I served as Vice-Chair from 2003-2006. Leading the section will likely bring a few challenges, but certainly more opportunities. The best thing about CaMPS is the quality of its members. As chair, I will benefit not only from the wisdom of our new sage, John Cuppoletti, but also from many dedicated and knowledgeable colleagues.

The section had a successful meeting in Anaheim, this past April. Now, we are actively planning the 2011 meeting in Washington D.C. One change that Paul Insel (Editor of AJP Cell) and I started this year was to invite our Hugh Davson Distinguished Lectureship and our New (Young) Investigator awardees to submit papers to AJP Cell. Both, Sergio Grinstein (Hospital of Sick Children, Toronto) and Sandrine Pierre (University of Toledo) have agreed to start this new tradition. Please look for these articles in upcoming issues of the Journal.

The section has nominated Dennis Brown (Massachusetts General Hospital) to give the 2011 Hugh Davson lecture, scheduled for Sunday April 10. As a reminder, the name of past Hugh Davson awardees can be found in the CaMPS section of the APS website.

Finally, as you prepare your abstracts for the meeting, remember the different awards that exist for trainees and new investigators. The strength of the section is measured by the enthusiasm and participation of all its members in APS meetings. I hope to see you all in Washington D.C. next April.

Eric Delpire, Chair.

PHOTO CONTEST*

Want to see your beautiful cell images featured in the next edition of the CaMPS newsletter? You can! Send your original images to Kelly Pitts (kelly.pitts@amgen.com) with a brief description by March 1, 2011. Members of the CaMPS committee will select a group of images to become the artwork for the fall newsletter. All featured images will include a caption referencing the “artist” and their affiliation. You won’t want to miss out on sharing your images with your fellow CaMP-ers!

*Featured images will be subject to a copyright transfer agreement to CaMPS
AJP-CELL PHYSIOLOGY EDITOR’S NOTE

The Associate Editors of AJP-Cell and I continue to encourage members of the Section to submit manuscripts to AJP-Cell. In addition to Original Articles (our “bread and butter”), we also seek other types of articles, including Reviews, Methods in Cell Physiology, Historical Perspectives and THEME topics and articles, as noted in previous articles in the Newsletter. I am pleased to report that AJP-Cell has initiated the publication of articles written by winners of various awards who have presented lectures at the EB meeting.

These include the Davson Award lecture (this year by Sergio Grinstein) and the Ussing lecture (this year by Paul Quinton). Both Drs. Grinstein and Quinton have submitted articles that we anticipate publishing in the next several months. We are also looking forward to receiving a manuscript from the CaMP section Young Investigator Awardee. We believe that publication of these lectures, along with Editorial Focus articles, Historical Perspectives and Reviews complement the Original Articles and provide “added value” to readers of AJP-Cell. Needless to say, though, we want to keep that bread buttered so we continue to urge Section members to submit their own Original Articles to “us.” We welcome suggestions from Section members of ways to improve AJP-Cell.

Paul Insel

Editor-in-Chief, American Journal of Physiology-Cell Physiology

TRAINEE ADVISORY COMMITTEE (TAC) SECTION

A message from the CaMPS Trainee Representative

As the trainee representative for the Cell and Molecular Physiology Section Steering Committee, I serve as a liaison between trainees and junior investigators in this division and the CaMPS Steering Committee. I am here to communicate trainee concerns and needs to the Steering Committee and work with the Steering Committee to see that relevant trainee matters are addressed. Please contact me with your comments, questions and concerns regarding career development or trainee issues within CaMPS.

I’d like to highlight some fantastic opportunities and new developments for trainees in CaMPS:


Start planning now for the abstract submission deadline of Monday, November 8, 2010. More information on EB 2011 will be available soon, when the meeting website goes active (http://experimentalbiology.org). Of note for trainees, the APS career development track, with many exciting and informative sessions ranging from tips to publishing in APS journals to finding your work/life balance to opportunities in non-traditional academic positions and

photo courtesy of Dwoon Jung, Dartmouth Medical School
TAC SECTION cont.

to opportunities in non-traditional academic positions and creating an individual development plan. Details for these symposia can be found in the APS career development track in the EB program.

1. When submitting your abstract and registering for EB 2011, remember to also apply for one of the CaMPS-sponsored awards for trainee members! CaMPS sponsors a Young Investigator Award, Research Recognition Awards for postdocs and Robert Gunn Student Awards for graduate and undergraduate students each year. Find details on these awards at [http://www.the-aps.org/meetings/eb11/awards/cell.htm](http://www.the-aps.org/meetings/eb11/awards/cell.htm).

2. Interested in being more involved in CaMPS happenings? Get involved by participating on the Trainee Subcommittee! This is your chance to provide input on CaMPS trainee events and participate in section activities. I encourage all trainees interested in playing a more active role in the section to please contact me.

3. Connect with us on-line! Visit the TAC and CaMPS Facebook pages ([http://www.facebook.com/home.php#/group.php?gid=214270420610](http://www.facebook.com/home.php#/group.php?gid=214270420610)). Email me (jbomberger@dartmouth.edu) or send a friend request via Facebook to get connected. Another great way to stay updated on all CaMPS and TAC opportunities and activities is to join the section list-serves ([http://www.the-aps.org/trainees](http://www.the-aps.org/trainees)). Please join us!

Best wishes,
Jennifer Bomberger, Ph.D.
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COMMITTEE ON COMMITTEES

I am pleased and extremely grateful for this opportunity to serve as the Committee on Committees Councilor. One of my jobs in this position, of course, is to ensure that there is continued and adequate CaMPS representation on all APS committees. Our outgoing Councilor, Martha O'Donnell (University of California, Davis), has exemplified such a role, and I am sure that you, like I, am thankful for her diligent efforts in the past years. In order to continue to maintain CaMPS representation on all APS committees, understandably we will need to work cooperatively and with a spirit of volunteerism. With that in mind, please nominate yourself for a committee appointment if you are interested in serving. The forms are available on-line [http://www.the-aps.org/committees/nominate.htm](http://www.the-aps.org/committees/nominate.htm). The deadline for submitting nominations is January 17, 2011 for 2012 appointments. The list of open positions and number of vacancies for 2012 can be found at [http://www.the-aps.org/committees/vacancy.htm](http://www.the-aps.org/committees/vacancy.htm).

Very truly yours,
My N. Helms, Ph.D.
Emory University
CaMPS AWARDS 2011

The CaMPS Steering Committee would like to encourage eligible candidates to apply for one of the below awards. Please pay close attention to the requirements. If you wish to apply for an award and you or your mentor are not a primary member of the Cell and Molecular Physiology Section, please change you primary membership to CaMPS prior to submitting your application.

The Distinguished Hugh Davson Lectureship

Every year, the Cell and Molecular Physiology Section honors a prominent scientist who has made significant contributions in the physiology of cell membranes. The section invites him/her to present the Distinguished Hugh Davson lectureship at the annual Experimental Biology meeting. Hugh Davson (1909 – 1996) was a renowned English physiologist who worked on membrane transport and ocular fluids. The first award was presented in 1994. The steering committee solicits nominations from all CaMPS members. Please submit nominations to both Roger T. Worrell, Ph.D. and Eric Delpire (roger.worrell@uc.edu, eric.delpire@Yanderbilt.edu) including nominees full name, department, institution, and CV if available by Jan. 7th 2011.

New Investigator Award

($1,000 plus reimbursement of the advance registration fee) recognizes an outstanding investigator in the early stages of his/her career. Candidates should be investigators who have made meritorious contributions to the area represented by the Cell and Molecular Physiology Section. They should not be above the rank of Assistant Professor or a comparable position in a research track at an academic institution or in industry (e.g. Scientist, Sr. Scientist, Research Investigator, etc.). They should receive nominations from at least two regular members of the APS. Candidates will be judged on their publications, how the publications relate to the Cell and Molecular Physiology Section and evidence for independence and promise (grant funding, peer review activities, etc.). Although this is not an abstract-based award, eligibility requires that awardees submit an abstract attend the EB Meeting, and make an oral or poster presentation. Unlike the other CaMPS awards, they need not be first author of the submission, but are anticipated to be senior author. Abstracts must be submitted by the meeting deadline, and then all additional application materials must be completed online by January 7th in the year of the EB Meeting.

The candidate must be an APS member in good standing with primary affiliation in the Cell and Molecular Physiology Section. Candidates must upload: curriculum vitae, 2 nomination letters from APS members, and 3 reprints. Awardee are recognized at the Cell and Molecular Physiology Banquet at the EB Meeting. Only one application per candidate will be accepted for any specific year and this award can only be obtained once.

DOCUMENTS REQUIRED:
Curriculum Vitae
2 Nomination Letters
3 Publication Reprints

OTHER DOCUMENTS REQUIRED:
Abstract Submission Number
Abstract First Author’s full name
Abstract Submission pdf

photo courtesy of Breana Bennett, University of Maine
CaMPS AWARDS cont.1

Research Recognition Awards

($500 plus reimbursement of the advance registration fee) will be given to TWO successful candidates for work performed while in the first through fifth postdoctoral year or medical residency. Applicants must be first author on an abstract submitted by the abstract deadline to the EB meeting and this work will be the primary basis for evaluation.

The trainee and/or their direct mentor must be a member in good standing of the APS, with primary affiliation in the Cell and Molecular Physiology Section. The award will go to the first-author trainee, but the mentor and all author trainees will be recognized in the award statement.

Members of the CaMPS Steering Committee will evaluate all submitted abstracts and supporting documents and then select the semi-finalists who will be announced via email and a newsletter to the CaMPS membership prior to the EB meeting. The semi-finalists will make a special poster presentation to the judges and public prior to the Cell and Molecular Section Banquet at the EB meeting (CaMPS dinner). Finalists will be selected by the panel at this time and awards announced, for the first time, and presented at the CaMPS dinner. The applicant must attend the Experimental Biology meeting in order to be eligible for the award.

Applicants must upload: 1) a copy of the submitted abstract; 2) their curriculum vitae; and, 3) a brief (e.g. half page) recommendation letter from their mentor describing why the trainee is deserving of the award. The abstract must be submitted by the EB meeting abstract deadline and all application materials must be completed online by January 7th in the year of the EB meeting. Only one application per candidate will be accepted for any specific year.

DOCUMENTS REQUIRED:
Abstract number
Abstract author’s full name
pdf of abstract
Applicant curriculum vitae
Recommendation letter
Abstract sponsor or advisor’s full name
Abstract sponsor email and phone number
Abstract Sponsor’s membership ID number

Robert Gunn Student Awards

($300 plus reimbursement of the advance registration fee) are available for up to TWO pre-doctoral candidates, allotment depending on applicant pool. One award will be given for work done while enrolled as a medical or graduate (doctoral or masters) student. An undergraduate researcher is given priority for the second award. Applicants must be first author on an abstract submitted by the abstract deadline to the EB meeting and this work will be the primary basis for evaluation. The trainee and/or their direct mentor must be a member in good standing of the APS, with primary affiliation in the Cell and Molecular Physiology Section. The award will go to the first-author trainee, but the mentor and all author trainees will be recognized in the award statement.
CaMPS AWARDS cont. 2

Members of the CaMPS Steering Committee will evaluate all submitted abstracts and supporting documents and then select the semi-finalists who will be announced via email and a newsletter to the CaMPS membership prior to the EB meeting. The semi-finalists will make a special poster presentation to the judges and public prior to the Cell and Molecular Section Banquet at the EB meeting (CaMPS dinner). Finalists will be selected by the panel at this time and awards announced, for the first time, and presented at the CaMPS dinner that night. The applicant must attend the Experimental Biology meeting in order to be eligible for the award.

Applicants must upload: 1) a copy of their abstract; 2) their curriculum vitae; and, 3) a brief (e.g. half page) recommendation letter from their mentor describing why the trainee is deserving of the award. The abstract must be submitted by the EB meeting abstract deadline and all application materials must be completed online by January 7th in the year of the EB meeting. Only one application per candidate will be accepted for any specific year.

DOCUMENTS REQUIRED:
Abstract number
Abstract author’s full name
pdf of abstract
Recommendation letter
Abstract sponsor or advisor’s full name
Abstract sponsor email and phone number
Applicant curriculum vitae
Abstract Sponsor’s membership ID number

SEEKING NOMINATIONS

Seeking Nominations for Section Councilor!

The Cell and Molecular Physiology Section is preparing to elect a Councilor to serve a three year term beginning at the close of the Steering Committee meeting that will be held at EB2011. The responsibilities of this position include serving on the Steering Committee as needed, participating in Committee meetings (either in person, by phone, or electronically), and organizing Section elections including securing nominations for Section positions. Please forward nominations to Bruce Schultz at bschultz@vet.ksu.edu. Nominees will be asked to provide a short biographical sketch and vision statement to include on the slate. Self nominations are accepted.

photo courtesy of Alex Caddell, University of Maine
CELL & MOLECULAR PHYSIOLOGY SECTION
SPONSORED EVENTS, EB 2011

Hugh Davson Distinguished Lectureship of the APS Cell and Molecular Physiology Section

Dennis Brown
Harvard University

TBD
Sunday, April 10, 2-3 pm, Ballroom B

Cross Sectional Symposia

Gas Channels
Chairs: Gerolf Gros and Walter Boron
Monday, April 11, 8-10:00 am, Ballroom B

CaMPS Symposia

Epithelial Ion Channel Trafficking
Chair: Michael Butterworth, University of Pittsburgh
Co-chair: Alexander Staruschenko, Medical College of Wisconsin
Sunday, April 10, 3:15-5:15, Room 146C

Ubiquitin and ubiquitin-like modifications that regulate ion channels in epithelial cells
Chair: Amrita Kumar, Emory University
Co-chair: My Helms, Emory University
Monday, April 11, 8-10 am, Room 146C

P2Y receptors: Autocrine/paracrine regulators of cell physiology
Chair: Paul A. Insel, UCSD
Co-chair: George R. Dubyak, Case-Western Reserve University
Monday, April 11, 3:15-5:15, Room 146C

Electrolytes, Carbohydrates & Fats: Epithelial Cells Making and Delivering Milk
Chair: Bruce D Schultz, Kansas State University
Tuesday, April 12, 3:15-5:15, Room 147C

CoMPS Featured Topics

Redox regulation of mitochondrial function in health and disease
Chair: David Marcinek, University of Washington Medical School
Co-Chair: Justin Percival, University of Washington Medical School
Monday, April 11, 10:30-12:30, Room 147B
Ammonium Transport Processes

Chair: Roger Worrell, University of Cincinnati
Co-Chair: David Weiner, University of Florida
Tuesday, April 12, 8-10 am, Room 1478

Ion Channels (Abstract-Driven)
Chair: TBN
Tuesday, April 12, 10:30-12:30, Room 1478

EB2011, April 9-13, 2011, Washington, DC
Abstract Submission Deadline: November 8, 2010

CaMPS members are encouraged to submit their abstracts for EB2011 from the following topics, selected by the CaMPS programming representatives for EB2011. Section awards for graduate students, postdoctoral fellows, and early stage investigators are selected from the submitted abstracts.

Featured Topics
1056-APS Ammonia transport processes
1057-APS Ion channels
1058-APS Redox regulation of mitochondrial function in health and disease

Poster Topics
1059-APS Apoptosis and cell death
1060-APS ATPase-driven ion pumps
1061-APS Cell volume, osmoregulation, and water transport
1062-APS Cellular signaling: second messengers, extracellular matrix, cell-cell interactions, kinases
1063-APS Intracellular pH and acid-base transport
1064-APS Membrane domains, lipid rafts, cell polarity and scaffolds
1065-APS Oxidative stress biology
1066-APS Stem cells and cell growth, development and differentiation
1067-APS Trafficking, cytoskeleton, and mechanosensation
1068-APS Transporters: transmitters, nutrients, metabolites and drugs

Carole M. Liedtke and Cathy Fuller
JPC representatives

photo courtesy Bradie Marion, University of Maine
Physiologists in Industry Committee (PIC) Message

The Physiologists in Industry Committee (PIC) is committed to fostering interactions between the APS and industry. Below are some PIC-sponsored events for Experimental Biology 2011 that CaMPS members won’t want to miss!

Symposia 2011: The PIC is continuing its tradition of sponsoring high quality symposia relevant to industry and academic scientists. The annual PIC Symposium at EB ’11 is entitled “Stem Cells and Drug Discovery”. The symposium will highlight recent advances regarding the rapidly evolving field of stem cell technology, how stem cells are enabling preclinical drug discovery and development, how pluripotent stem-cell derived cardiomyocytes and beta-cells may be applied to cardiovascular and diabetes drug discovery, respectively. Speakers for the Physiologists in Industry Symposium include Dr. Sheng Ding, (Scripps Research Institute), Dr. John Hambor (The Cell Therapy Group), Dr. Timothy Kamps (University of Wisconsin), and Dr. Lawrence Chan (Baylor College of Medicine).

The PIC has also successfully competed for the EB ’11 Translational Physiology symposium “The Cardiac Sarcomere as a Therapeutic Target”. The symposium will highlight recent insights into mechanisms regulating cardiac function at the sarcomere level while highlighting novel emerging therapies to improve cardiac performance. The program has commitments from Dr. Kerr MacDonal (University of Missouri School of Medicine), Dr. Henk E.D.J. ter Keurs (University of Calgary) and Dr. Elizabeth McNally (University of Chicago Medical Center), and Dr. R. John Solaro (University of Illinois at Chicago). Attendees will gain an appreciation for the translational nature of studying and targeting the cardiac sarcomere.

Novel Disease Model Award: A reminder that abstract submissions to EB ’11 are NOT that far away! The Novel Disease Model Award, sponsored by the PIC and the APS, recognizes one graduate student ($500) and one postdoctoral fellow ($800) who submit the best abstract describing a disease model that is novel or has significant potential to be applied to the drug discovery process. The application for the award can be found on by visiting the APS website and following the “Section Awards” link (“Physiologists in Industry”) from the EB ’11 page, or by clicking on the “Committees” tab on the APS homepage and going to the PIC page.

Kelly R. Pits, Ph.D.
Physiologists in Industry Committee Representative
CaMPS STEERING COMMITTEE

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Term ends: 2013

Photo courtesy of Chris McGary, University of Maine