Spring / Summer 2009

We held elections for the steering committee. I would like to welcome Cathy Fuller to replace Christian Lytle, Roger Worrell to replace J. Jay Gargus, and to welcome back Mike Romero for another term as Vice Chair. Cathy has already worked this winter as the Junior Program Representative with Carole Liedtke as the Senior Program Representative. It was a real pleasure working with Christian Lytle and Jay Gargus and they worked very hard for you on the Section and the Society. I hope that they will continue to serve the section and the Society in the future. Mike always has a big job organizing the newsletters and the dinner. Jay did a tremendous job in organizing a new poster session to highlight the work of our potential awardees, and always had a tremendous workload to organize the evaluation of the applications. Thanks to everyone especially My Helms, Bruce Shultz, and Kelly Pitts who pitched in to help with the Jay Gargus with the awards, and Mike Romero with the newsletter and dinner. My Helms is presently working on a FaceBook page for CaMPS which should be available by the end of the Summer. The Journal also has a new editor, Paul Insel, who replaced Dennis Brown. We welcome Paul, and we will miss Dennis. Be sure to send in your articles to the Journal to highlight your work. Kelly Pitts has been highly active as our Liaison With Industry Committee Representative. As always, our Sage, Simon Lewis, has been sage.

This has been a busy year. The steering committee selected Doug Eaton for the after dinner speaker for our dinner at the House of Blues on Monday April 20. Of course, he will keep us entertained and as always, will teach us something we need to know. At the time this was being written, we still had some tickets left, and these can be purchased at https://www.the-aps.org/cgi-bin/ecom/eticket/ticket_list.cgi. The steering committee selected Jennifer Stow to give our 2009 Davson Distinguished Lecture, which will be held on Monday, April 20. Sergio Grinstein will be the 2010 Davson Distinguished Lecturer, continuing our long history of outstanding Davson speakers. Please let us know if you have a nominee for 2011.

There was a short business meeting at the dinner for the awards announcements and presentations. We also need took a few minute to formally approve changes to our bylaws, which now contain a new provision for secondary members to play a role on our committees and a provision for electronic voting. The draft bylaws can be found here: http://www.the-aps.org/sections/cell/sop.htm. This will be considered notice that there will be a vote on the amended bylaws, as required by the bylaws.

Jay Gargus and My Helms have worked very hard to introduce a poster session for highlighting and judging the posters of potential awardees. The student awardees will be announced at the dinner meeting. Please be sure to encourage your students and New Investigators to apply, and be sure that you and your student are members of the section if they apply for an award! This is a very high priority for the steering committee. As always, please contact Martha O'Donnell or any member of the steering committee if you have interest in serving on a committee. We will have four openings on the committee next year, so think about nominating yourself or someone for the position. The open positions are listed in the new bylaws. Glad to see you in New Orleans!

John Cuppoletti, Chair
I am pleased to report that AJP-Cell is prospering. We continue to receive a large number of manuscripts in areas of interest to members of the Cell and Molecular Physiology Section. As importantly, we very much appreciate the efforts of Section members in reviewing papers for AJP-Cell. The number of submissions has increased from 7/07-6/08 vs. 7/08-4/09. The 4 largest areas in manuscripts are submitted are: Membrane Transporters, Ion Channels and Pumps, Muscle Cell Biology and Cell Motility, Receptors and Signal Transduction, and Vascular Biology but we receive manuscript in all areas of cell physiology. The overall rise in submissions has kept the Associate Editors (Bob Balaban, John Geibel, Sophie Lotersztajn, Alicia McDonough, Kathy Sweadner and Jason Yuan) and me very busy, especially since we perform editorial duties in our “free time” (a misnomer, I think). We may not be totally loco but we are all juggling multiple efforts in parallel and in “real time”!

I sometimes wonder if those of us in the US feel as if we are running on an accelerating treadmill while some of our foreign colleagues may have a more genteel life style. I am dubious of the reality of that view: a review of countries of origin of manuscripts submitted to AJP-Cell indicates that 57% were from the US during 7/07-6/08 but since 7/08, only 48% originated from the US. Other countries with the largest number of submissions are Canada, Japan and Taiwan from 7/07-6/08 (all 7% or less) and since 7/08, Canada, Japan, and China. As our reviewers may have noticed, we are receiving a greater number of submissions from China, a trend that seems likely to continue.

In spite of the increase in submissions to AJP-Cell of manuscripts from outside the US and prepared by non-native English speakers, we are finding that fewer submissions need to be returned to authors because of the poor quality of the English grammar, punctuation and verbiage. The Editors, reviewers and editorial staff in Bethesda appreciate the efforts of authors whose articles have clearly written English and that “sparkle” in their science.

The Editors of AJP-Cell strive to make decisions in as timely a manner as possible and accepted articles appear immediately online and rapidly in print. AJP-Cell, although based in the US, is truly an international journal that aims to publish original findings and reviews that will be global in scope and impact. So I implore the members of the Section: Send us your best work in cell physiology!

Paul A. Insel
Editor,
American Journal of Physiology - Cell Physiology
**Control central: the intersection of exocytic and endocytic pathways**

*Abstract.* Recent studies have revealed that the recycling endosome in mammalian cells receives traffic from endocytic and recycling pathways and from exocytic or secretory pathways. It thus handles a complex mix of membrane and protein cargo which it then sorts and deploys selectively to the cell surface or other organelles. In epithelial cells this enigmatic compartment helps to control cell polarity, cell adhesion and other functions. In immune cells recycling endosomes control immune responses through the strategic deployment of cytokines and packets of membrane to enable phagocytosis and migration. This talk will present evidence, including imaging in live cells, to help demonstrate some of the new-found and widespread functions of recycling endosomes in trafficking pathways - functions that centrally underpin the physiology of differentiated cells.

**Sergio Grinstein, Ph.D.**

*Hospital for Sick Children; Univ. Toronto (Biochemistry), Canada*

**Biography.** Dr. Grinstein received his PhD in Physiology at the Centro de Investigacion y Estudios Avanzados in Mexico City (1975). Dr. Grinstein pursued two postdoctoral fellowships: one in Toronto with Aser Rothstein (studying ion transport in red cells); and the other in Zurich with Giorgio Semenza (studying Na-glucose co-transport). He then returned to Toronto (Cell Biology @ Hospital for Sick Children and Biochemistry @ Univ. Toronto) where he has been since 1980. He has been a full professor of Biochemistry since 1988. He has also been an international research scholar of the Howard Hughes Medical Institute since 1991-92 and is a fellow of the Royal Society of Canada.

**Research.** Dr. Sergio Grinstein has had a long and stellar career as an outstanding biochemist, physiologist and cell biologist. His research interests center on two areas: (i) phagocyte activation and (ii) volume and pH regulation. Specifically, the first is the molecular mechanisms used by white blood cells to eliminate infectious organisms, i.e., how macrophages and neutrophils migrate to sites of infection, ingest microbes and destroy them. The second area is the regulation of ion transport and the pH of intracellular compartments. He has developed several molecular probes and imaging techniques allowing measurement of ion content in living cell compartments by non-invasive methods.

Dr. Grinstein has trained a numerous students and fellows in his lab, magnifying his contribution and contributing to Canada's position at the forefront internationally in cell biology research.

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**Call for Nominations: Hugh Davson Lectureship 2011**

Send in your nominations to Carole Liedtke (carole.liedtke@case.edu)
# 2010 Sessions of Interest

## Sunday April 25, 2010

- **Ion Transporters in Cancer** [Ion Channels and Transporters Track]
  Chairs: Cathy Fuller and Ken Gagnon

- **Endoplasmic Reticulum Stress at the Crossroad Between Fatty Liver, Leptin Resistance, Obesity and Diabetes** [Non-Track Sessions]; Chair: Ivan Torre-Villalvazo

- **Extracellular Matrix and Pathology of Cardiovascular Disease** [Non-Track Sessions]
  Chairs: Jason Gardner and Pamela Lucchesi

- **Matrix Metalloproteinases in Mitochondrial, Cytoskeletal & Nuclear Remodeling** [Non-Track Sessions]; Chairs: Suresh Tyagi

- **Regulation of Epithelial Ion and Water Channels** [Non-Track Sessions]
  Chairs: TBA

## Monday April 26, 2010

- **Systems Biology Approach to Monitor Intercellular Networks** [Systems Biology (-omics) Track]
  Chairs: Sylvie Breton, and Bruce Molitoris

- **Caveolar Microdomains, Signaling and Disease** [Systems Biology (-omics) Track]
  Chair: Paul A. Insel, University of California San Diego

- **Molecular Physiology of Iron Homeostasis and its Disorders** [Translational Physiology Track]
  Chairs: Tomas Ganz and Elizabeta Nemeth

- **Regulation of Epithelial Transporters** [Non-Track Sessions]
  Chair: TBA

- **Current Understanding of the Mechanisms and Regulation of Intestinal Vitamin, Trace Elements & Metal Transport** [Ion Channels and Transporters Track]; Chairs: Hamid M. Said and Robert J. Cousins

- **Regulation of Neuronal Cell Volume: Activation to Inhibition to Degeneration** [Non-Track Sessions]
  Chairs: Glenn Toney and Sean Stocker

- **Stem Cells: Nature's Own Nanotechnology** [Non-Track Sessions]
  Chairs: William Chilian and Thomas Hintze

## Tuesday April 27, 2010

- **Regenerative Medicine in the 21st Century** [Translational Physiology Track]
  Chairs: Emmanuel C. Opara, Anthony Atala

## Wednesday April 28, 2010

- **Cytoskeleton-associated Motors and Tethers in Epithelial Polarity and Trafficking** [Non-Track Sessions]
  Chairs: Bruce Stanton and Dennis Brown

- **Mechanobiology and Oxidative Stress** [Non-Track Sessions]
  Chairs: Anthony Passerini and John Frango

- **Novel Redox Signaling in Ion Channel Regulations and Pathophysiology** [Non-Track Sessions]
  Chair: My Helms

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**CALL FOR SYMPOSIUM AND FEATURED TOPIC PROPOSALS, EB 2011**

We invite our section members to plan symposia and featured topics for EB2011 in Washington, DC from April 9-13, 2011. Forms should be downloaded from the APS web site ([http://www.the-aps.org/meetings/eb.htm](http://www.the-aps.org/meetings/eb.htm)) and should be sent to the CAMPS Senior Programming Representative Carole Liedtke (carole.liedtke@case.edu).

The CaMP section can organize **up to two symposia each year**. The symposium organizer will receive up to $4,000 to allocate for travel reimbursement along with complimentary registration for the organizer, co-organizer, and up to 4 invited speakers.

Our section can also organize **up to 3 Featured Topics each year**. A Featured Topic is a “mini-symposium” in which a thematically cohesive series of outstanding posters are selected for oral presentation alongside one or two invited speakers. The organizer will receive up to $1000 to allocate for travel reimbursement along with complimentary advance registration for up to 2 presenters. All other presentations are selected from the submitted abstracts.
The Liaison with Industry Committee (LWIC) is committed to fostering interactions between the APS and industry. Below are some LWIC-sponsored events for Experimental Biology 2009 that CaMPS members won't want to miss!

Symposia 2009: The LWIC is continuing its tradition of sponsoring high quality symposia relevant to industry and academic scientists. The annual LWIC Symposium at EB '09 is entitled “Molecular Imaging of Physiological Processes in Drug Discovery”. The symposium will highlight recent advances in the field of In Vivo molecular imaging of disease processes, biomarkers, and novel therapeutic targets and has commitments from Dr. William Strauss, M.D. (Memorial Sloan-Kettering Cancer Center), Dr. Adriana Maggi, Ph.D. (University of Milan), Dr. Paul Acton, Ph.D. (Johnson & Johnson Pharmaceuticals), and Dr. Farouc A. Jaffer, M.D., Ph.D. (Harvard Medical School).

The committee has also successfully competed for the EB '09 Translational Physiology symposium; it is entitled “Fibrosis: Signaling, Physiology, and Therapies”. The symposium will discuss recent advances in the field of pathological fibrosis and potential therapeutic approaches to its treatment. Speakers for the Translational Physiology Symposium include Dr. Scott L. Friedman, M.D. (Mount Sinai School of Medicine), Dr. Eric G. Neilson, M.D. (Vanderbilt University School of Medicine), Dr. Scott Lonning, DVM, Ph.D. (Genzyme), and Dr. Kevin K. Brown, M.D. (National Jewish Medical and Research Center).

***Novel Disease Model Award: A reminder that abstract submissions to EB '10 are NOT that far away! The Novel Disease Model Award, sponsored by the LWIC 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’09 page (http://www.the-aps.org/meetings/eb09/awards/lwic.htm), or by clicking on the “Committees” tab on the APS homepage and going to the LWIC page (http://www.the-aps.org/committees/liaison/).

Kelly R. Pitts, PhD, CaMPS Industry Liaison

Cell and Molecular Physiology Section Awards
*** Nov 5, 2009 deadline***
http://www.the-aps.org/meetings/eb10/awards/cell.htm
applicants MUST have a valid poster / abstract submitted

- New Investigator Award
- Research Recognition Awards
- Robert Gunn Student Awards

APS AWARDEE RESPONSIBILITIES AND TAX RULES = http://www.the-aps.org/awards/rules.htm

The Cell and Molecular Physiology Section 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, awardees must submit an abstract by the meeting submission deadline and are expected to attend EB 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. Contributing students and fellows are recognized in the award.

The candidate must be an APS member in good standing with a primary affiliation in the Cell and Molecular Physiology Section

Candidates must upload: a curriculum vitae, 2 nomination letters from APS members, and 3 reprints. Awardees are recognized at the Cell and Molecular Physiology Banquet at the EB Meeting. Abstracts must be submitted by the meeting deadline, and then all additional application materials must be completed online by January 15 in the year of the EB meeting.

Apply online at: http://www.the-aps.org/awardapps
The **Cell and Molecular Physiology Section 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 Experimental Biology 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 a 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 as well as former CAMPS awardees at the junior faculty level will evaluate all submitted abstracts and supporting documents and then select 5-6 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 the morning of the Cell and Molecular Section Banquet at the EB meeting (CAMPS diner). 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.

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 abstract deadline and all application materials must be completed online by **January 15 in the year of the EB meeting**. 

Apply online at: [http://www.the-aps.org/awardapps](http://www.the-aps.org/awardapps)

The **Cell and Molecular Physiology Section 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 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 Experimental Biology 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 a 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 as well as former CAMPS awardees at the junior faculty level will evaluate all submitted abstracts and supporting documents and then select 5-6 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 the morning of the Cell and Molecular Section Banquet at the EB meeting (CAMPS diner). 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.

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 abstract deadline and all application materials must be completed online by **January 15 in the year of the EB meeting**. 

Apply online at: [http://www.the-aps.org/awardapps](http://www.the-aps.org/awardapps)

Roger T. Worrell, Ph.D., CaMPS Awards
EB-2009 Awardees (New Orleans)

Barkha Patel, York Univ

Rachael Carissa Crnich, Colorado State Univ.

ROBERT GUNN STUDENT AWARDS

Rekha Yesudas, Texas Tech U, Health Sci Ctr

Rebecca Cunningham, UTx, San Antonio.

RESEARCH RECOGNITION AWARDS (FELLOW)
Dear APS / CaMPS Members,

As I enter my second year as the Trainee Representative for the Cell and Molecular Physiology Section (CaMPS), I have come to appreciate the many positive attributes of being an APS, and more specifically, Cell section member. Below, I would like to highlight and share with you some important membership privileges; perhaps you may know of new (trainee) members who could benefit from electing section membership?

As I alluded to above, one of the positive benefits of APS membership is the possibility of associating with specific scientific sections of the society. Such an association costs nothing, but provides you, as a section member, information that is specific to the section, the opportunity to submit symposium proposals for the annual meeting, and the opportunity to participate in social events at the annual meeting at a reduced rate. Any APS member in good standing can join two APS sections (1st and 2nd choices).

Specifically, there are several great reasons to join CaMPS. First, CaMPS is unique among the APS sections in that it is not organ or system based, but rather covers all areas of cellular and molecular physiology and is therefore broadly appealing to APS members (which is probably why it is the second largest section in the Society). Second, because of its size, CaMPS members have many opportunities to submit for programming and to sponsor symposiums and featured topic minisymposia at the annual Experimental Biology (EB) Meetings. Third, as a CaMPS member, you (or your students and fellows) are eligible for Cell and Molecular Physiology Section awards. Finally, the annual CaMPS banquet, held at EB is a fun and enjoyable way to meet and network with professional colleagues. CaMPS encourages members (trainees in particular) to attend the annual banquet by keeping the cost of banquet tickets reasonable and, following dinner, the accomplishments of early career scientists, as well as established researchers are recognized.

For these reasons, I thoroughly enjoy serving in the CaMPS section as the Trainee Representative. If you would like to hear of ways that you, or your trainees, could become more involved in Cell section happenings, please do not hesitate to contact me or our section Chair, Dr. John Cuppoletti.

Remember there are new and exciting opportunities for APS trainee members, and would encourage you (or your trainees) to participate in.

1. Due January 2010 - *** APS Early Career Professional Service Award.
   Award: $1,000 and complimentary registration to Experimental Biology meeting
   Apply online at http://www.the-aps.org/awardapps
   The Early Career Professional Service Award honors an early career stage (graduate student, post-doctoral fellow, Assistant Professor or equivalent position) member of the American Physiological Society. The Award will honor someone who is judged to have made outstanding contributions to the physiology community and demonstrated dedication and commitment to furthering the broader goals of the physiology community. This can be by serving on professional committees, participating in K-12 education outreach, participating in scientific advocacy and outreach programs, or by otherwise strengthening and promoting the physiology community. Current members of the Trainee Advisory Committee are not eligible for the award.


3. Find out what you need to know in order to be a successful physiologist!
   The APS has published a Professional Skills Document that provides incredible insight into the skills that trainees will need to develop over the course of their graduate and post-doctoral education, as well as through the first professional position that they may be in. This document can be downloaded from the APS website at http://www.the-aps.org/education/skills.htm and can help junior investigators develop a career plan with their mentors.

4. Check out NEW CaMPS FaceBook pages
   To take advantage of the current Internet tools, CaMPS has a FaceBook page (http://www.facebook.com/home.php#/group.php?gid=214270420610).
   Ask My Helms (mhelms@physio.emory.edu) to make you a “friend!”

We hope this Bulletin Board will allow quick communication with our Cellular and Molecular Physiology Section community.

Sincerely,

My N. Helms, Ph.D./CAMPS Trainee Representative
Emory University, Department of Physiology, mhelms@emory.edu
THANKS TO “RETIRING” STEERING COMMITTEE MEMBERS (NEW ORLEANS)

J Jay Gargus, MD, PhD, UCLA
(Awards Councilor)

Christian Lytle, PhD, UC Riverside
(Sr. Prog. Rep).

Michael F. Romero, PhD, Mayo Clinic (Vice Chair)

POST DINNER ACTIVITIES

We hope everyone enjoyed the Banquet! Thanks for your continued CaMPS section support. Congratulations to all the Awardees.

Thanks to Doug Eaton (after dinner speaker, see below) for a great and entertaining talk.

Dr. Eaton is a Professor, Physiology & Biophysics, Emory University, Atlanta, GA. He is also the Director of the Center for Cell and Molecular Signaling. He received his PhD in Zoology from the Univ California, San Diego in 1971. (http://www.physiology.emory.edu/doug.htm)

Research Interests. The goal of my research is to examine the cellular signaling mechanisms which control all aspects of cellular function including cell growth, division, and responses to external stimuli. To examine these signaling mechanisms, I use contemporary methods of cellular and molecular biology including patch voltage clamp methods and expression of cloned signaling molecules in Xenopus oocytes and other expression systems. There are three main areas of cellular signaling research in my laboratory: (1) cellular responses which involve steroid hormones and other lipid molecules particularly as these molecules are responsible for regulation of total body sodium balance; (2) signaling mechanisms responsible for the responses of renal cells to growth factors and vasoactive substances like Angiotensin II; (3) signaling mechanisms which control excitability of ion channels in nerve cells. This work may provide an understanding of the mechanism of action of general anesthetics.

Doug is also being featured on the new CaMPS FaceBook page (http://www.facebook.com/home.php#group.php?gid=214270420610 ) or ask My Helms (mhelms@physio.emory.edu ) to make you a “friend!”

Hope you enjoyed New Orleans! Michael F. Romero, CaMPS Vice Chair
Cell and Molecular Physiology Steering Committee

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