

Cell & Molecular Physiology Section (CaMPS) - Fall 2008

Michael F. Romero, Editor / Vice Chair

Message from the Chair

FALL 2008

The Steering Committee of the Cell and Molecular Physiology Section has been working hard to organize for EB 2009 to be held in New Orleans April 18-22, 2009. The tentative program is listed on the APS web site under "meetings". The meeting will be of interest to our members since there are a wide selection of symposia and abstracts for those who are interested in cellular and molecular physiology. We hope that you were able to **submit your abstracts by the November 5, 2008 deadline** and that you will attend.

Please note our new CAMPS AWARDS procedure this year (detailed page 5-6) which will feature a special poster presentation on the day of the CAMPS DINNER by SEMI-FINALISTS after which the WINNERS will be selected, but not announced until CAMPS DINNER that night. So everyone get in your abstracts (Nov 5!) and award applications (you have until Jan 15 to finish this part) and plan to attend the dinner (make your reservations early)! We're also going to have special name-tag ribbons and placards at the meeting poster sessions to designate CAMPS AWARD WINNERS

We thank Dennis Brown (Mass. General, Harvard) for his many years of service as Editor and for his service and wise counsel to the steering committee. *AJP Cell Physiology* continues to have outstanding editorial leadership since Paul Insel, USCD, was appointed in July 2008 as Editor, and we welcome him as ex-officio member of the steering committee.

The Cell and Molecular Physiology Section will sponsor **three featured topics at EB 2009:**

1) "Organization, Current Progress, and Challenges in International Physiome" (Daniel A. Beard, Chair); 2) "Structure/Function of SLC4 Bicarbonate Transporters" (Inyeong Choi, Chair); and 3) "Lymphatic Endothelial Cells: Passive or Active Participants in Lymphatic Function?" (Jerome W. Breslin and Walter L. Murfee, co-Chairs). The ***Hugh Davson Distinguished Lecturer*** will be Jenny Stow (University of Queensland, Australia), whose research is in the area of protein trafficking in human disease.

We will be voting for three positions open on the steering committee to replace Christian Lytle (Junior Program Committee opening), Bruce Schulz (Councilor) and Michael Romero (Vice Chair). We thank the retiring members for their hard work on behalf of the section and the APS.

The steering committee has proposed an update of our by-laws. The proposed new by-laws are listed at <http://www.the-aps.org/sections/cell/sop.htm>. Please be sure to look these over for the changes in membership, terms, and a proposal for electronic voting. A vote will be held to approve the proposed by-laws at our annual dinner meeting in New Orleans will be held on **Monday April 20, 2009 at the CaMPS Banquet**. Tickets for the dinner can be obtained by going to the APS web-site (https://www.the-aps.org/cgi-bin/ecom/eticket/ticket_list.cgi). Our after dinner speaker will be Douglas Eaton (Emory).

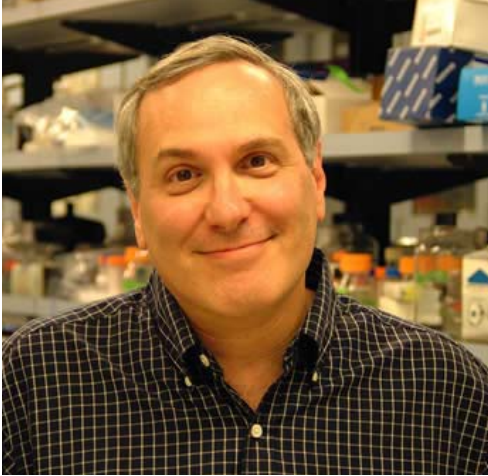
The section continues to retain and attract new international and national members and trainees and is in a good position to provide funding awards and other activities. As always, if you have questions or suggestions, please contact any of the members of the steering committee. We look forward to seeing you in New Orleans.

John Cuppoletti, Chair

Nov 5, 2009
EB-2009 Abstracts submission !!!

MEET THE NEW EDITOR OF AJP-CELL PHYSIOLOGY:

Paul A. Insel, Editor-in-Chief



[Paul A. Insel, MD](#)

In July, our new editorial team (I, as Editor-in-Chief, along with Associate editors Bob Balaban, John Geibel, Sophie Lotersztajn, Alicia McDonough, Kathy Sweadner and Jason Yuan) assumed the stewardship of *AJP-Cell Physiology* following the successful term of Dennis Brown and his team. In the July issue of the journal I reviewed some of our goals and changes that we plan to make. Of particular note is our interest in expanding the realm of topics that are published in *AJP-Cell* so as to increase the journal's appeal and broaden its scientific content. Following discussions among the "team", we decided to seek to expand the number of manuscripts (and hopefully, readers!) in evolving areas of cell physiology, including stem cells.

At our meeting the Editors held a lively discussion and deplored the widespread fixation, especially among non-US readers (and institutions), on "impact factors" in evaluation of individuals (and entire departments), even though we are pleased that *AJP-Cell* has one of the highest impact factors of journals that emphasize original research in physiology. Multiple articles have recently noted the flawed manner in which impact factors are calculated, including their use to judge the "quality" of authors by the journals in which they publish rather than on the merit and "impact" of the articles themselves. Some have felt that it is ironic that scientists have allowed a rather inexact, non-scientific number (impact factor) to be used to evaluate the importance and quality of their efforts, as reflected in scientific publications.

It is traditional for a new team of Editors to revamp the Editorial Advisory Board, a process that will begin soon for *AJP-Cell*. We are very grateful for the time and effort that members of the Board and non-Board members, including, importantly, members of the Cell Physiology Section, have expended and the insights that they have provided in the review of manuscripts submitted to the journal. I/we look forward to working with you in the future as we seek to make *AJP-Cell* the preferred venue for the publication of new discoveries in cell physiology.

Paul A. Insel

Editor,

American Journal of Physiology- Cell Physiology

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

date

time, place

Jennifer L. Stow, Ph.D.

University of Queensland, Australia

***“Control central -
at 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 depolyment 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.

Biography. Jennifer Stow is Deputy Director of Research, Institute of Molecular Bioscience, The University of Queensland, Australia. Jenny grew up in Melbourne, Australia, received a Ph.D. from Monash Univeristy in 1982, and was awarded a Fogarty International Fellow in the Department of Biology at Yale University School of Medicine to study under Marilyn Farquhar. Upon completion of her fellowship, she was appointed Assistant Professor at Massachusetts General Hospital in the Renal Unit where she worked with Dennis Brown, Dennis Ausiello and others. At the end of 1994, Jenny returned to Australia as a Wellcome Trust Senior Medical Research fellow to take up a position at the University of Queensland in Brisbane. The Centre she joined then has since grown into the multidisciplinary Institute for Molecular Bioscience (IMB), one of Australia's largest research institutions. This year Jenny moved from being head of the Molecular Cell Biology Division to Deputy Director (Research) of IMB. She is a Principal Research Fellow of the National Health and Medical Research Council. Jenny's career-long research interest has been in protein trafficking and secretion. Her pioneering studies have mapped the trafficking pathways of proteins ranging from proteoglycans to cell adhesion proteins and, most recently, cytokines. Research in the Stow lab is still focused on kidney epithelial cells but with macrophages and other immune cells as auxiliary interests. She is on a number of editorial boards and has served as Associate Editor for the American Journal of Physiology:Cell Physiology

Call for Nominations: Hugh Davson Lectureship
Send in your nominations to Chris Lytle (Christian.lytle@ucr.edu)

Symposia

Pathogens Hijacking the Host [Immune Response Track]

Sunday, April 19, 2009, 8am-10am

Chair: Bruce A. Stanton, Dartmouth Medical School

Co-Chair: George O'Toole, Dartmouth Medical School

Time	Speakers
8:00 am	Vojo Deretic, University of New Mexico <i>Autophagic degradation of intracellular microbes and innate immunity</i>
8:30 am	George A. O'Toole, Dartmouth Medical School <i>Pseudomonas aeruginosa</i> and CFTR trafficking in airway epithelial cells
9:00 am	Karla Kirkegaard, Stanford University <i>Poliovirus, intracellular trafficking and cytokine secretion during viral infection</i>
9:30 am	Ralph Iseberg, Tufts University <i>Molecular Mechanisms of Bacterial uptake and intravacuolar growth of Legionella pneumophila in host cells</i>

High-throughput discovery of novel ion channel probes: small molecules, big impact

[Systems Biology (-omics), Immune Responses, and Ion Channels and Transporters Tracks]

Tuesday, April 21, 2009, 8am-10am

Chair: Jerod Denton, Vanderbilt University School of Medicine

Co-Chair: Christine Colvis, National Institutes on Drug Abuse

Time	Speakers
8:00 am	Christine Colvis, National Institutes on Drug Abuse <i>Navigating the NIH Roadmap Molecular Libraries Program</i>
8:30 am	Alan Verkman, University of California at San Francisco <i>Small molecule chloride channel modulators</i>
9:00 am	Edwin Levitan, University of Pittsburg <i>Using yeast to discover novel mammalian K⁺ channel regulators</i>
9:30 am	Jerod Denton, Vanderbilt University School of Medicine <i>High-throughput discovery of Kir channel modulators</i>

Featured Topics

Topic *Lymphatic endothelial cells: Passive or Active participants in lymphatic function?*
Co-Chairs Jerome W. Breslin, LSUHSC School of Medicine / Walter L. Murfee, Tulane University
Track Immune Response Track
Time Monday, April 20, 2009, 8am-10am

Topic *Organization, current progress, and challenges in International physiome projects*
Chairs Daniel A. Beard, Medical College of Wisconsin
Track Systems Biology-(omics) and Education Tracks
Time Tuesday, April 21, 2009, 8 am-10am

Topic *Structure/function of SLC4 bicarbonate transporters*
Chairs Inyeong Choi, Emory University / Joseph Casey, University of Alberta
Track Ion Channels and Transporters Track
Time Tuesday, April 21, 2009, 10:30am-12:30pm

*** Special Awards Poster Session ***

Special poster presentation on the **Mon April 20** (day of the CAMPS BANQUET) by SEMI-FINALISTS after which the WINNERS will be selected, but NOT announced until CAMPS DINNER that night

CALL FOR SYMPOSIUM AND FEATURED TOPIC PROPOSALS, EB 2010

We invite our section members to plan symposia and featured topics for EB2010 in Anaheim, California from April 24-28, 2010. Forms should be downloaded from the APS web site (<http://www.the-aps.org/meetings/eb.htm>) and should be sent to the CAMPS Senior Programming Representative Carole Liedtke (carole.liedtke@case.edu). **Please note that the deadline will be February 1, 2009.**

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.

APS Liaison With Industry Committee (LWIC)

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 '09 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, 2008 deadline*****

<http://www.the-aps.org/meetings/eb09/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) = <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>

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** (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 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>

J. Jay Gargus, M.D., Ph.D., CaMPS Awards

EB-2008 AWARDEES



Rachael Carissa Crnich, Colorado State Univ.



Anne Riquier, University of Southern California

ROBERT GUNN STUDENT AWARDS



Xiangyan Tong, PhD, University of California, Irvine

RESEARCH RECOGNITION AWARDS (FELLOW)



Estelle Cormet-Boyaka, PhD, The Ohio State University

NEW INVESTIGATOR AWARD (JR. FACULTY)

CAMPS TRAINEE COMMITTEE UPDATE

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 23, 2009- *** 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.

2. Visit a K-12 classroom for PhUn Week 2008 in November.

Prepare for Physiology Understanding Week 2008

The APS encourages all of its members to reach out to their local K-12 schools during the first week in November as part of **Physiology Understanding Week (PhUn Week)**. PhUn Week resources and freebies can excite youth about research science and physiology. Physiologists can have an impact on precollege science and students through classroom visits with their lab groups. As the school year begins, start planning NOW with teachers in your community for PhUn Week, **November 3-7, 2008**. PhUn Week Event Planner forms are available at www.PhUnWeek.org. Submit no later than October 1st to request free promotional items. For more info, contact the APS Education Office at phunweek@the-aps.org.



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 down-loaded 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. Make plans to attend the Experimental Biology (EB) Meeting in New Orleans April 18-22, 2009!

Sincerely,

My N. Helms, Ph.D./CAMPS Trainee Representative
Emory University, Department of Physiology, mhelms@emory.edu

Elections are coming!

Be on the look out for emails and web notices about the CaMPS elections.

- **Vice Chair** - Neil Bradbury; Kirk Hamilton; Michael Romero
- **Jr. Programming Representative** - Inyeong Choi; Cathy Fuller
- **Councilor for Awards**- Liz Cowley; Tom Ecay; Roger Worrell

CaMPS Dinner 2008 – *Ocean Room* (San Diego, CA)

CaMPS Banquet 2008



***** Special Awards Poster Session *****

Special poster presentation on **Mon April 20** before the **CAMPS BANQUET** by **SEMI-FINALISTS** after which the **WINNERS** will be selected, but **NOT** announced until **CAMPS DINNER** that night

CaMP Section Banquet – EB 2009

- DATE** **Monday April 20, 2009**
- TIME** Cocktails start at 6:30 p.m. and dinner at 7:30 p.m.
- PLACE** New Orleans restaurant (TBA)
- COST**
- Members/nonmembers \$50 each.
 - Students and Post-doc \$20 each.
- ***Door cost: \$70 (members) and \$30 (student / postdocs)**

POST DINNER ACTIVITIES:

1. Awards
2. Dr. Doug Eaton (brief after dinner talk--- hopefully humorous!)



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 University of 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. First, I have been particularly interested in the cellular responses which involve steroid hormones and other lipid molecules particularly as these molecules are responsible for regulation of total body sodium balance. This work has lead us recently to examine defects in cellular signaling which may be responsible for some types of hypertension and electrolyte disorders. Second, I have been examining the signaling mechanisms responsible for the responses of renal cells to growth factors and vasoactive substances like Angiotensin II. This work has direct relevance to understanding the renal pathology of diabetes. Finally, I am interested in the 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.

3. brief business meeting.



See you in New Orleans !

*Michael F. Romero,
CaMPS Vice Chair*

Cell and Molecular Physiology Steering Committee

Chair and Section Advisory Committee Representative

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