

Cell Section Newsletter - Winter 2007

Michael F. Romero, Editor / Vice Chair

Message from the Chair

As I begin as Chair of the Cellular and Molecular Physiology Section, I would like to thank the previous steering committee for leaving the Section in excellent shape, the current steering committee for their hard work and leadership during this year, and the APS staff including Marty Frank, Linda Dresser and Linda Allen who are called on frequently to assist us. According to our bylaws, "The purposes of this Section are to: Advise the Society on matters of interest to the members of the Section. Assist the Society, through representation on the Joint Program Committee, in the organization of the scientific meetings of the Society. Nominate individuals for membership on Society committees. Be open to all members of the Society expressing an interest in Section membership. Provide the President-Elect with recommendations of and supporting material for individuals to be nominated by the Society for awards. To recognize members who have made significant contributions to the affairs of the Section and the Society."

Major tasks of the group are to put together two newsletters each year to help keep the section members informed, to organize an annual dinner meeting, to program abstracts, symposia and featured topics, and to match members of the section with committees of the Society. The steering committee must also organize awards and grant opportunities. We urge everyone to put in applications for the Society Award and the Cell and Molecular Physiology New Investigator, Student Awards, and the Research Recognition awards. Cell and Molecular Award descriptions can be found at <http://www.the-aps.org/meetings/eb08/awards/cell.htm>.

All of the work is progressing well. We are excited to announce that Dr. George Chandy will be the after dinner speaker and that Dr. Doug Eaton will be the Davson lecturer at EB08 meeting. The section has organized 2 symposia and 2-3 featured topics and we are ready to begin the award selection process.

We will be putting effort into filling the Society's committees. Please be sure to contact Martha O'Donnell (meodonnell@ucdavis.edu) if you would be willing to serve on the many committees of the Society. The list of committees can be found at <http://www.the-aps.org/committees/>. Please be sure to contact me or any of the members of the steering committee if you have suggestions to improve the section.

I hope to see all of you at the meeting this year.

John Cuppoletti, Chair

Thanks Simon !!! (right in photo)

A very special "Thank you" to **Dr. Simon Lewis** (U Texas at Galveston) who has lead the Cell and Molecular Section for the past 3 years. Simon has helped to keep the CaMPS section solvent while simultaneously helping to renew interest in the section and in Cell Physiology in general.

Simon now replaces Dr. Michael L. Jennings (U Arkansas Medical Sciences; our previous Chair) as the "Sage" of the section. We look forward to more of your wisdom.

Thanks again Simon!

Michael F. Romero, vice-Chair



EB 2008 PREVIEW:

CELL & MOLECULAR PHYSIOLOGY SECTION SPONSORED EVENTS

Chris Lytle, senior programming officer



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

Douglas C. Eaton, Ph.D.
Emory University School of Medicine
The salt of the Earth, striking while the ion is hot™

Monday, April 7, 2008
2:00-3:00 PM, Ballroom 20A

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

Symposia

Temperature Sensing by TRP Channels [Channels and Transporters Track]

Tuesday, April 8 — 8:00 AM-10:00 AM

San Diego Convention Center — Room 24

Chair: Jie Zheng, University of California, Davis

Co-Chair: David McKemy, University of Southern California, Los Angeles

Time	Speakers
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8:00 am	David McMemy , University of Southern California <i>The role of chili peppers and mints in the molecular basis of temperature sensing</i>
8:25 am	Ardem Patapoutian , The Scripps Research Institute <i>TRP ion channels as sensors of temperature and pain</i>
8:50 am	Feng Qin , State University of New York <i>Biophysical studies of temperature-sensitive TRPV1 channels</i>
9:15 am	Jie Zheng , University of California, Davis <i>Making sense of the temperature sensitivity of thermoTRPs</i>
9:40 am	Narender Gavva , Amgen Inc <i>Predominant function of TRPV1 is body temperature regulation</i>

Role of Cholesterol in Cardiovascular and Renal Pathology [Translational Physiology Track]

Monday, April 7 — 8:00 AM-10:00 AM

San Diego Convention Center — Room 23

Chair: Douglas C Eaton, Emory University School of Medicine

Time	Speakers
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8:00 am	Irena Levitan , University of Pennsylvania <i>Role of Kir channels in Hypercholesterolemia-Induced Endothelial Dysfunction</i>
8:30 am	Moshe Levi , University of Colorado Health Science Center <i>Cholesterol and Age-Related Renal Diseases</i>
9:00 am	Warren Hill , Harvard Medical School, Cambridge <i>ENaC and lipid rafts</i>
9:30 am	He-Ping Ma , University of Alabama at Birmingham <i>Cholesterol Regulates the Renal Epithelial Sodium Channel</i>

Featured Topics

Sunday, April 6, 2008

3:15-5:15 PM, Room 28B

Regulation of ENaC by Membrane Lipids [Channels and Transporters Track]

Chair: He-Ping Ma, University of Alabama at Birmingham

Time

Speakers

3:15 pm

James D. Stockand, *Univ. of Texas Hlth. Sci. Ctr., San Antonio*
Regulation of ENaC by phospholipids.

3:45 pm -
4:45 pm

Abstract-Driven

4:45 pm

Diomedes E. Logothetis, *Virginia Commonwealth Univ., Med. Col. of Virginia*
Structural insights on phosphoinositide regulation of K channels: affinity, stereospecificity, stoichiometry and effects on channel gating.

Monday, April 7, 2008

3:15-5:15 PM, Room 28B

Mechanotransduction Mediated by Primary Cilia [Cell Physiology Track]

Carole M. Liedtke, Case Western Reserve University

Time

Speakers

3:15 pm

Andrew Resnick, *Case Western Reserve University*
Mechanosensitive regulation via the primary cilia.

3:45 pm -
4:45 pm

Abstract-Driven

4:45 pm

Anatoliy I. Masyuk, *Mayo Clinic*
Mechanosensory functions of cholangiocyte cilia.

Featured Topic (Abstract Driven) TBA

CALL FOR SYMPOSIUM AND FEATURED TOPIC PROPOSALS, EB 2009

We invite you to submit proposals for symposia and featured topic sessions at EB 2009 (New Orleans, April 18-22). Forms should be downloaded from the APS web site (<http://www.the-aps.org/meetings/eb.htm>) and sent to our Programming Chairs, Chris Lytle (Christian.lytle@ucr.edu) and Carole Liedtke (carole.liedtke@case.edu) before March 26, 2008.

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 "minisymposium" 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.

APS Liaison With Industry Committee (LWIC)

The LWIC is sponsoring a Symposium entitled "IBS-C and Chronic Constipation: Mechanisms and Novel Treatments" at EB2008 on [Monday, April 7th from 3:15 – 5:15 PM](#). This symposium organized by Shaila Basavappa, Gastrointestinal and Liver Physiology Section representative to LWIC, will focus on two GI disorders that affect ~15-25% of the US population, Irritable Bowel Syndrome (IBS) and chronic idiopathic constipation. The proposed mechanisms underlying these conditions and potential treatments and their cellular pathways will be presented. LWIC is also organizing a Translational Symposium entitled "Recent Advances in the Renin-Angiotensin-Aldosterone System for the Investigation and Treatment of Hypertension" at EB2008 on Sunday, April 6th from 8:00 – 10:00 AM. This symposium organized by Christine Schnackenberg, former W&EH Section representative to the LWIC, will focus on recent molecular, cellular, whole-animal, and clinical advances in the Renin-Angiotensin-Aldosterone System.

Look for the full program on-line at <http://www.eb2008.org>.

The Disease Model Award will be granted to a graduate student and a postdoctoral fellow who submit the best abstracts at EB2008 that describe the novelty of the model and the potential utility of the system for future research related to a disease process. The model can be in vitro or in vivo. The award is \$500 for the graduate student and \$800 for the postdoctoral fellow and is sponsored by the LWIC. See the call for abstracts this Fall for application details and in the Spring newsletter.

You're invited! Come meet and eat with your fellow physiologists who are working in the corporate sector. The 8th Annual Liaison With Industry Committee Mixer is on at EB2008. Look for details in the Spring newsletter.

Kelly R. Pitts, PhD, CaMPS Industry Liaison

Cell and Molecular Physiology Section Awards

*****Feb 5, 2008 deadline*****

CaMPS sponsors several section awards every year.

<http://www.the-aps.org/meetings/eb08/awards/cell.htm>

The **Cell and Molecular Physiology Section New Investigator Award** (\$1,000 plus reimbursement of the annual meeting advance registration fee) recognizes outstanding investigators in the early stages of their career. Candidates should be investigators who have made meritorious contributions to the scientific areas represented by the APS Cell & 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 APS section to which they have applied, and evidence for independence and promise (grant funding, peer review activities, etc.). Although this is not an abstract-based award, awardees are expected to submit an abstract by the November 7, 2007 deadline and to attend EB and make an oral or poster presentation. The candidate must be an APS member in good standing with a primary affiliation in the Cell and Molecular Physiology section. Winner will be announced, and award presented, at the Cell and Molecular Section Banquet at the EB meeting. Candidates must provide a curriculum vitae, 2 nomination letters from APS members, and 3 reprints. All supporting application materials must be submitted online (www.the-aps.org/awardapps) by [February 5, 2008](#). Questions should be directed to J. Jay Gargus: jjgargus@uci.edu.

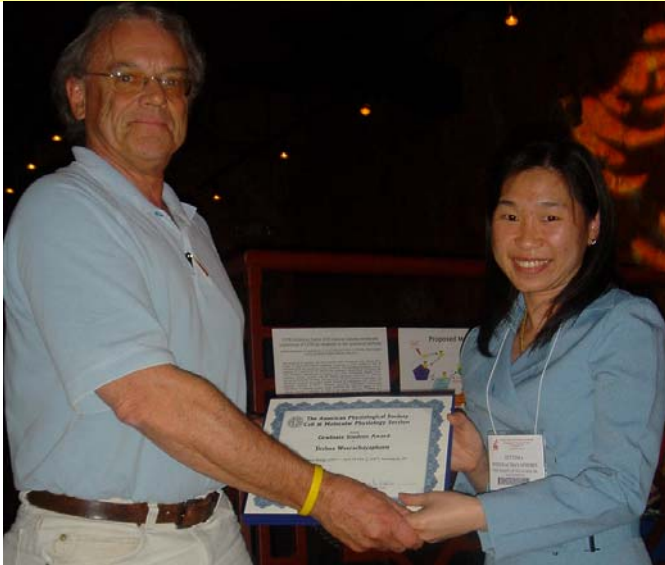
The **Cell and Molecular Physiology Student Awards** (\$300 plus reimbursement of the annual meeting advance registration fee and CAMPS banquet) are available for up to two pre-doctoral candidates, allotment depending on applicant pool. One award will be given for work done while enrolled as a medical 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 November 7, 2007 deadline to the Experimental Biology meeting. The student or their direct faculty mentor must be a member in good standing of the APS, with a primary affiliation in the Cell and Molecular Physiology section. Members of the CAMP Steering Committee will review all applications. Winners will be announced, and awards presented, at the Cell and Molecular Section Banquet at the EB meeting. Applicants must provide a curriculum vitae, and have the mentor submit a brief (e.g. half page) letter describing why the trainee is deserving of the award. All supporting application materials must be submitted online (www.the-aps.org/awardapps) by [February 5, 2008](#). Questions should be directed to J. Jay Gargus: jjgargus@uci.edu.

The **Cell and Molecular Physiology Research Recognition Awards** (\$500 plus reimbursement of the annual meeting advance registration fee and CAMPS banquet) will be given to two successful candidates for work performed while in the *first through third postdoctoral year or medical residency*. Applicants must be first author on an abstract submitted by the

November 7, 2007 deadline to the Experimental Biology meeting. The trainee or their direct faculty mentor must be a member in good standing of the APS, with a primary affiliation in the Cell and Molecular Physiology section. Members of the CAMP Steering Committee will review all applications. Winners will be announced, and awards presented, at the Cell and Molecular Section Banquet at the EB meeting. Applicants must provide a curriculum vitae and have the mentor submit a brief (e.g. half page) letter describing why the trainee is deserving of the award. All supporting application materials must be submitted online (www.the-aps.org/awardapps) by [February 5, 2008](#). Questions should be directed to J. Jay Gargus: jjgargus@uci.edu.

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

EB-2007 AWARDEES



Jittima Weerachayaphorn

(not pictured)

Tingting Weng

STUDENT AWARDS



Jennifer M. Bomberger



Kenneth B. Gagon

YOUNG INVESTIGATOR (POSTDOC) AWARDS

CAMPS TRAINEE COMMITTEE UPDATE

Dear Cell Section Members,

My name is **My N. Helms**, and I am your new trainee representative for the Cell and Molecular Physiology Section Steering Committee. First, I would like to thank Perry Chang (Mayo Clinic College of Medicine), our former trainee representative, for all of his contribution to the Committee. Similar to the work that Perry has done, my main role is to identify the current needs of young scientists and bring it to the attention of our committee, in order to make positive changes for early career scientists in Physiology. *Please feel free to contact me with any questions, concerns, or suggestions that you may have for, or regarding, CaMPS trainee membership.*

I would also like to begin by telling you of some very new and exciting opportunities for APS trainee members, and would encourage you (or your trainees) to participate in.

1. Due January 25, 2008- *New APS Early Career Professional Service Award.**

This award of \$1000 USD and complimentary registration to the EB meeting, honors an early career stage (graduate student, post-doctoral fellow, Assistant Professor or equivalent position) member of the American Physiological Society. The award will select 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. Learn and apply on-line to this award at <http://www.the-aps.org/awardapps>. For questions about this award, contact Melinda Lowy or the APS Education Office at 301-634-7132.

2. Visit a K-12 classroom for PhUn Week 2007 in November.

Physiology Understanding Week is the American Physiological Society's member-based annual outreach program to K-12 school classrooms each November. For more information visit the following website: <http://www.phunweek.org/pdfs/2007%20PhUn%20Week%20Event%20Planner.pdf>

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 San Diego this year!

The EB 2008 Meeting website is now live! www.eb2008.org. Every year at EB, the Cell and Molecular Physiology Section encourages all trainees to attend the Cell Dinner by heavily subsidizing the cost of the event for trainees. Attending this dinner provides a great opportunity to relax and network with prominent physiologists. This is a popular event, and seating may be limited, so be sure to sign-up for the CAMPS list-serve (see below) and receive newsletters about APS events in San Diego before it is too late.

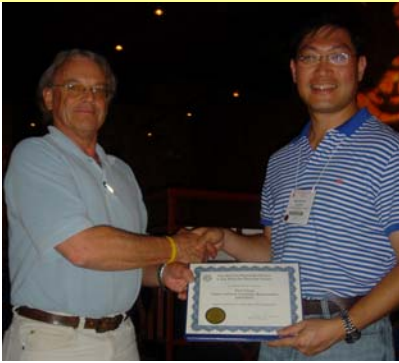
On a final note, I genuinely wish that I could pass on to each CaMPS trainee all of the resources that APS has to offer early career scientists. However, the best way to learn about important trainee opportunities, obtain useful career development resources, and learn about exciting ways in which trainees can be actively involved with the APS is to join the CaMPS list-serve. Simply visit the APS website at

<http://www.the-aps.org/index.htm>, click on the "members only" tab located on the top of the screen, and log onto your account where you will be able to manage your membership information and subscribe to the list-serve. You can also subscribe to the trainee advisory list-server by visiting <http://www.the-aps.org/trainees/> for additional career development resources. Again, this is the best way for trainees to stay current with CaMPS and to learn of career opportunities.

Very truly yours,

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

Thanks for the memories (and service)!



Perry Chang – Trainee Rep.

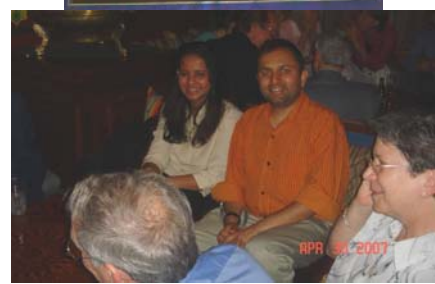
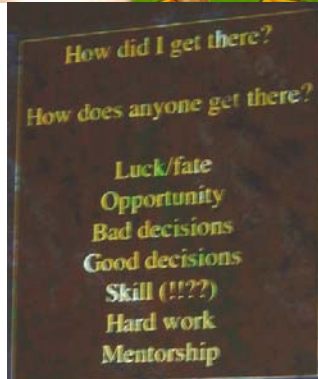


Scott O'Grady-Awards



John Payne - Programming

Cell Dinner 2007 – Marrakesh (Washington, DC)



CaMP Section Dinner – EB 2008

DATE	Monday April 7, 2008
TIME	Cocktails start at 6:30 p.m. and dinner at 7:30 p.m.
PLACE	San Diego restaurant (TBA)
COST	<ul style="list-style-type: none">• Members/nonmembers \$30 each.• Students and Post-doc \$15 each. ***Door cost: \$40 (members) and \$20 (student / postdocs)

POST DINNER ACTIVITIES:

- Awards
- Dr. George Chandy (brief after dinner talk)

Dr. Chandy is a Professor, Physiology & Biophysics, Microbiology & Molecular Genetics, and Medicine, University of California, Irvine (http://www.immunology.uci.edu/investigators_detail.cfm?UID=1043081). Dr. Chandy received his medical degree from the University of Madras, India, and his PhD in Immunology from the University of Birmingham, England. He has received the Athalie Clark Research Achievement Award for excellence in research from the University of California Irvine.

Dr. Chandy is an internationally recognized authority on mechanisms of autoimmunity and the roles of ion channels in cellular immunity. He is the co-founder of Airmid and a co-discoverer of Airmid's key technological assets, Kv1.3, PAP-1, and ShK-186.
- brief business meeting.

See you in San Diego !

Michael F. Romero, CaMPS Vice Chair

Cell and Molecular Physiology Steering Committee

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