

# ***AMERICAN PHYSIOLOGICAL SOCIETY***

## ***CELL & MOLECULAR SECTION NEWSLETTER***

***SPRING, 2003***

### **CHAIR'S MESSAGE**

On behalf of the Cell and Molecular Physiology (CAMP) Section, I look forward to seeing you at the 2003 Experimental Biology meeting in San Diego this April. As usual, our section has many outstanding activities planned for the meeting, including Featured Topics, Symposia, and other sessions of interest, all of which are described later in this Newsletter. We extend our thanks to Program Advisors Ron Lynch, John Payne, and former Program Advisor Pete Cala for a great job.

The Hugh Davson Lecture will be given by Roger Tsien on the morning of Monday, April 14; the title of his lecture is "Teaching Cells to Display their Internal Physiology". Roger's talk will appeal to a wide audience, and it will no doubt continue in the tradition of excellence established by past lectures in this series. Our CAMP banquet will be held on Sunday evening, April 13 (see details later in the Newsletter). Please note that, in the past, our banquet was usually on Monday of EB, but, this year, we felt that there will be fewer conflicts on Sunday. Our after-dinner speaker will be Toni Scarpa, who will talk about the emerging topic of magnesium oscillations. His talk will be both interesting and entertaining, and you should make your reservations early to ensure a place at the table.

#### Looking Ahead to IUPS 2005

As we plan for this year's EB meeting, I want all our membership to look ahead not only to the 2004 EB meeting in Washington, D.C., but also to the 2005 EB meeting in San Diego, which will be held jointly with the International Union of Physiological Sciences (IUPS). IUPS 2005 will be the first IUPS Congress in many years to be held in the US, and it represents an outstanding opportunity for us to interact with colleagues whom we may not see every year.

Program planning for IUPS 2005 is now underway, and the International Scientific Program Committee is looking for suggestions for symposia, workshops, featured topics, and distinguished lectures. IUPS 2005 is being organized according to commissions representing various branches of physiology, and there is no single commission that corresponds to Cell and Molecular Physiology. However, several of the commissions are represented by individuals who are well-known cell physiologists. I have contacted some of the IUPS Commissioners from overseas and will try to

coordinate the program suggestions made by members of the Cell and Molecular Section with those made by cell physiologists from abroad.

Walter Boron is the Chair of the International Scientific Program Committee for IUPS 2005, and I refer you to his message posted at the IUPS2005 web site for guidelines regarding symposia and featured topics:

<http://www.iups2005.org/announce/programcall.htm>

The International Scientific Program Committee has set a deadline of May 15, 2003, for receipt of program suggestions. I know this is three months away, but the time to suggest program topics is now. I urge all members of the Cell and Molecular Physiology Section to make suggestions for symposia, featured topics, workshops, and distinguished lectures. IUPS 2005 will be a great meeting, and we should not pass up our opportunity to have input into the program.

Mike Jennings  
Chair, APS Cell and Molecular Section

## **SECTION AWARDS**

### **TRAINEE AWARDS**

The Steering Committee is proud to announce the winners of our annual awards competition for Young Investigator and predoctoral trainees. Young Investigator awardees are Marie-Jose Duran (mentor Thomas A. Pressley) and Min-Hwang Chang (Mentor Michael Romero). Predoctoral Awardees are Prithwish Pal (Mentor Philip A. Knauf) and Brenda A. Bondesen (Mentor Grace Pavlath).

The Steering Committee also awarded the section's Proctor and Gamble Professional Opportunity Award to Melissa Palmer-Densmore (Mentor Scott O'Grady). The Proctor and Gamble Award is awarded to predoctoral students within 18 months of obtaining their degree.

Congratulations to all our award winners! Awards will be presented to the winners at our Banquet so be sure to come and congratulate them!

Contributed by Peter Lauf

## **CAMPS BANQUET AT EB2003**

The Cell and Molecular Physiology Section will hold its EB2003 banquet on Sunday, April 13<sup>th</sup> at the Harbor House Restaurant, 831 W. Harbor Drive, San Diego, CA. The restaurant is within walking distance from the Marriott Hotel.

The evening will start with a cocktail hour at 6:30 pm at the Harbor House Patio. Dinner will follow at 7:30 pm. The banquet speaker is **Toni Scarpa, Ph.D.**, Case Western

Reserve University. The title of his talk is “The reverse of the metal; where  $Mg^{2+}$  oscillates and regulates cell functions.” The banquet offers a great opportunity for mentor and mentees to network as well as socialize with your colleagues. Please encourage your graduate students and postdoctoral fellows and junior faculty to come and join us. The cost for the dinner is \$35 for Section members and only \$17.50 for students and postdoctoral fellows of Section members.

**IMPORTANT:** All tickets must be purchased BEFORE the meeting. For tickets, send a completed ticket request form with a check (payable **to APS:Cell and Molecular Physiology Section**) to Dr. Carole M. Liedtke, Department of Pediatrics, 2109 Adelbert Rd., BRB Rm 824, Cleveland, OH 44106-4948. Ticket request forms are attached with this newsletter.

## **HUGH DAVSON DISTINGUISHED LECTURER**

The Cell and Molecular Physiology Section will sponsor Roger Y. Tsien, Ph.D., as the Hugh Davson Distinguished Lecturer at EB2003 in San Diego, CA on Monday, April 14, 3:15 pm in the San Diego Convention Center, Rm 6A.  
*PLEASE MARK YOUR CALENDARS NOW!!!*

Dr. Roger Tsien is Professor of Pharmacology and Chemistry at the University of California, San Diego and an Investigator of the Howard Hughes Medical Institute. Dr. Tsien received his Ph.D. degree from the University of Cambridge in 1977 and started his career there as a postdoctoral fellow. He was appointed Assistant Professor in the Department of Physiology-Anatomy at the University of California, Berkeley in 1981. He relocated to the University of California, San Diego in 1989. Dr. Tsien has been a leader and pioneer in the development of new molecules to measure and perturb intracellular messengers. His early interest in fluorescent probes used to assess membrane potential evolved into the discovery and development of probes to quantitate intracellular free calcium levels, in particular the mechanism of  $Ca^{2+}$  influx stimulated by emptying endoplasmic reticulum stores. He also studies the structure-function relationships in Green Fluorescent Protein and its application to protein-protein interactions by fluorescence resonance energy transfer. Dr. Tsien has extensively published his work in original papers and review articles.

## **EXPERIMENTAL BIOLOGY 2003**

Once again, the CAMP program co-chairs, working with other sections, have planned an outstanding program at the EB 2003 meeting. Presented below is a synopsis of the program sponsored or cosponsored by CAMPS as well as other sessions of interest.

### **SESSIONS SPONSORED BY THE CELL AND MOLECULAR SECTION**

**HUGH DAVSON DISTINGUISHED LECTURE**  
Rodger Tsein, Monday, April 14, 3:15 pm, Rm 6A.

**Symposia:**

**Caveolar Domains in Cell Signaling**, Sunday, April 14<sup>th</sup>, 10:30 am to 12:30 pm, Rm 5  
Organizer: Paul A. Insel; UCSD

**Gap-Junctional Hemichannels: Physiology and Pathophysiology**, Saturday,  
April 12<sup>th</sup>, 10:30 am to 12:30 pm, Rm 4, Organizer: Luis Reuss UTMB, Galveston.

**Feature Topics:**

**Integrated Cell Systems, Sunday**, Sunday, April 13<sup>th</sup>, 8-10 am, Rm 4  
Organizer. James. B. Bassingthwaighe

**The molecular physiology of HCO<sub>3</sub><sup>-</sup> transport**, Sunday, April 13<sup>th</sup>, 8-10 am, Rm 3  
Organizers: M.F. Romero, M.O. Bevensee.

**Regulation of ion transporter trafficking**, Tuesday, April 15<sup>th</sup>, 10:30 am to 12:30 pm, Rm 4  
Organizer: Wenhui Wang

**Cross-sectional Symposia Supported by Cell Section:**

**Identities of Estrogen Receptors Mediating Non-genomic effects**, , Monday, April 14<sup>th</sup>,  
10:30 am to 12:30 pm, Rm 3 Watson

**Role of the Transcription Factor TonEBP/NFAT5**, Sunday, April 13<sup>th</sup>, 10:30 am to  
12:30 pm, Rm 9 Burg and Kwon

**OTHER SESSIONS OF INTEREST TO CELL SECTION MEMBERS:**

**Physiology in Focus:** Physiological Implications of Oxidative and Nitrosative Stress  
**Distinguished Lecture:** Endocrinology and Metabolism C. Newgard

**Symposia and Featured Topics:**

**Saturday, April 13, 8-10 am**

Genomics of Angiogenesis and the Microcirculation, Rm 6C J. Hoying  
Flow/Stretch Regulated Membrane and Ion Transport in Epithelia, Rm 10 Satlin and Apodaca

**10:30 am to 12:15 pm**

Novel Calcium Signaling Mechanisms in Vascular Myocytes: Cyclic ADP-Ribose,  
Ryanodine Receptors and Ca<sup>2+</sup>-Induced Ca<sup>2+</sup> Release, Rm 3 Li/van Breeman  
Functional Genomics and Proteomics of Hypoxia, Rm 5 Prabhakar and Klein  
Peroxisome Proliferator-Activated Receptor (PPARS), Rm 6C Guan and Sigmond

**3:15 pm to 5:15 pm**

Mitochondrial Regulation of Cell Function, Rm 6A Battacharya  
Recent Advances in the Study of Hexose Transport Studies, Rm 11B Ferraris  
Glial/Neuronal Bidirectional Signaling, Rm 9 Hatton

**Sunday, April 13, 3:15 pm to 5:15 pm**

Redox Signaling of Angiogenic Response in the Heart, Rm 4 Das and Maulik  
Understanding Protein Unfolded States: Implications for Folding, Function, Evolution and

Disease States, Rm 8

Pappu

**Monday, April 14, 8-10 am**

Function and Regulation of Mitochondrial Produced NO in Cardiomyocytes, Rm 3

Kanai and Peterson

Neuron-Glia Interactions in the Nervous System, Rm 5

Ransom/Dietmer

Caveolin Regulation of Endothelial Function, Rm 6B

Minshall and Malik

**10:30 am to 12:30 pm**

Regulation of Vascular Smooth Muscle Phenotype: Contractile vs. Proliferative, Rm 10  
Raj

Lineage Specific Programming of Stem Cells into Tissues, Rm 6B Al-Aqwati

Life and Death Decisions: Fate of Apototic Cells, Rm 11b

Cidlowski

**3:15 to 5:15 pm**

Structure and Regulation of Epithelial Na and K Channels, Rm 10 Eaton and Kleyman

**Tuesday, April 15, 8-10 am**

Trafficking of Membrane Transporters in the GI System, Rm 4 Okamoto

Subcellular Organization of Second Messenger Signaling in the CV system, Rm 5,  
Lynch and Paul

AT-1 and AT-2 Receptors: Cellular Actions? Rm. 9

Sumners and Hay

Epithelial Anion Channels: Structure, Form, Function, Rm 11B

Kirk and Fuller

**10:30 am to 12:30 am**

Functional Proteomics: Applications to the CV system, Rm 5

Ping

**Workshops and Special Symposia:**

EB2003 offers special programs that will interest young physiologists who want to acquire new skills for their future scientific career and for those CAMP members who are exploring new avenues for their careers. Here are three offerings:

Making Science News, sponsored by Public Affairs Committee, Friday April 11, 2-5 pm., Room 11B

NIHBI Program for Genomic Applications: Background for Physiologists, Saturday, April 12, 3:15-5:15 pm, Room 6B

Presentation Skills, sponsored by Women in Physiology Committee and Women in Pharmacology Committees, Monday, April 14, 8-10 am, Room 11A

CAMPS Program Co-chairs

Ron Lynch [rlynch@u.arizona.edu](mailto:rlynch@u.arizona.edu)

John Payne [japayne@ucdavis.edu](mailto:japayne@ucdavis.edu)

## APS and CELL SECTION TRAINEE REPRESENTATION

As part of a continuing effort at APS to increase trainee representation, the Cell Section now has a Postdoctoral Representative on the Steering Committee and a Task Force on Trainees (see fall 2002 CAMPS newsletter). We are anticipating the formation of the APS Trainee Steering Committee hopefully within the year, which will be composed of Trainee Representatives to several APS Steering Committees. This group will be discussing and implementing ways for the APS to better serve its student and postdoctoral members. To ensure that the interests of those in the Cell Section are well-represented, the Cell Section Task Force wants to know NOW what YOU think should be done. Some ideas currently under consideration are providing web-based links for dissemination of information about databases and grant opportunities, and holding an informal seminar on the lives and careers of prominent scientists. If you have any other ideas or would like to serve on the Task Force please let us know by emailing Caroline Sussman at [crs13@po.cwru.edu](mailto:crs13@po.cwru.edu).

Caroline Sussman  
CAMPS Steering Committee Postdoctoral Representative  
Chair of the CAMPS Task Force on Trainees

\*the article on Trainee Representation in the Fall CAMPS newsletter was written by Caroline Sussman

## MESSAGE FROM THE EDITOR OF AJP:CELL

As announced in the previous newsletter, the contents page of AJP Cell Physiology has a new look for the New Year. I am happy to report that the manuscript subject categories are now visible in the Online journal (<http://ajpcell.physiology.org>) in addition to the print version. Feedback has been very positive, and all submitting authors have been able to choose a category to fit their manuscript. These categories clearly illustrate the type of submission that we are striving to attract, and have helped to define the scope of the journal more visibly. There are two special calls for papers that are currently active: "**Methods in Cell Physiology**" and "**Protein and Vesicle Trafficking**". We have already had several submissions in response to these special calls, details of which can be found on the AJP Cell Physiology Editor's webpage at:

<http://www.the-aps.org/publications/journals/ajpcell/index.htm>

**Editorial Focus** : We continue to highlight special areas and papers of interest via these short overview articles. Recent focus pieces that have appeared or will appear in the near future are:

- "**The RHOad less traveled: the myosin phosphorylation-independent path from Rho kinase to cell contraction**" by Tammy M. Seasholtz - this focuses on a manuscript by Richard Paul and colleagues (Nobe et al) showing that Rho kinase mediates serum-induced contraction in fibroblast fibers independent of myosin LC20 phosphorylation (March issue).
- "**How megalin finds it's way: identification a novel apical sorting motif**" by Michael Caplan - this focuses on a manuscript by Marilyn Farquhar and her colleagues (Takeda et al) that examines membrane sorting signals on the megalin/gp330 receptor protein (Future issue).

- **"Claudins form ion-selective channels in the paracellular pathway"** by Eveline Schneeberger focuses on a manuscript by Jim Anderson and his colleagues (Collegio et al) on the role of claudins in tight junction resistance and charge selectivity (Future issue).

**Invited reviews** are important to the overall goal of AJP Cell Physiology to provide up-to-date information to its readers on a variety of hot topics. Reviews published so far in 2003 are:

- 1) **"Role of airway surface liquid and submucosal glands in cystic fibrosis lung disease"** by Verkman et al (January issue)
- 2) **"ET-1- and NO-mediated signal transduction pathway in human brain capillary endothelial cells"** by Chen et al (February issue)
- 3) **"A-type potassium currents in smooth muscle"** by Amberg et al (March issue)

**How to Improve the Journal:** The editorial team is working hard to promote the journal and to attract the very best science in each of the fields covered by the new subject categories. In order to continue to improve our standing, I would encourage readers of this Newsletter to do the following:

- Send your best work to AJP Cell Physiology - our average turnaround time is only 25 days to first decision, we provide free color to APS members and accepted articles are almost immediately available online as well as to the broader community via the PubMed database.
- Strive to expedite the review process if you are solicited to be a referee - in this way the whole community will benefit as word of our rapid turnaround time spreads.
- Cite as many AJP Cell Physiology articles as reasonably possible in your own manuscripts. In this way our citation index will improve and in turn we will attract more manuscripts. This is especially important to our overseas colleagues.
- Don't hesitate to contact either myself or one of the Associate Editors with any suggestions, comments or criticisms about your experience with the journal. We realize that we are not quite perfect (!) and there is room for improvement in some areas.

On behalf of the entire Editorial team, I wish you all a successful and (hopefully) peaceful year. Thank you all for your help and encouragement during the first few months of my Editorship.

Dennis Brown  
Editor, AJP Cell Physiology

## APS TRAVEL FELLOWSHIPS FOR MINORITY STUDENTS AND FACULTY

**APS Travel Fellowships for Minority Students and Faculty** provide financial support for travel expenses and outstanding mentoring opportunities for students and faculty who wish to attend the APS Fall Conferences and/or the annual spring meeting, Experimental Biology. This program is designed to encourage underrepresented minority students (African American, Native American, Hispanic, or Pacific Islander) to pursue professional careers in physiological/biomedical sciences. The program is supported by grants from the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) and the National Institute of General Medical Sciences (NIGMS) of the National Institutes of Health.

### Specifically the program:

**Provides travel fellowships to minority students to attend the annual spring meeting, *Experimental Biology*.** The program provides travel fellowship recipients an opportunity to attend a large variety and number of symposia, workshops, tutorials, and slide and poster sessions, and to interact with leading scientists in the field of physiology.

**Provides travel fellowships to minority students to attend the conferences of the APS.** These meetings are focused on a specific physiology topic and occur in an informal setting, allowing for greater interaction between the students and scientists at the meeting. The meetings range in length from three to five days. The program provides travel fellowship recipients an opportunity to attend symposia, workshops, tutorials, and slide and poster sessions, and to interact with leading scientists in the field of physiology.

**Provides travel fellowships to faculty members at Minority Access to Research Career (MARC) and Minority Biomedical Research Support (MBRS)-eligible institutions to attend *Experimental Biology* and the APS conferences.** This aspect of the program is designed to enhance the research expertise of faculty and to improve science teaching at these institutions.

Before each meeting, the APS Education Office recruits APS members to be meeting mentors for awardees. In February and March 2003, the APS Education Office will be looking for APS members to mentor fellowship awardees at Experimental Biology 2003 in San Diego, CA from April 10-15. We encourage members of the section to volunteer as mentors. This is an informal process of mentoring in which the member and the awardee are asked to meet at least once at the beginning of the meeting and typically visit each other's posters, to discuss research- and career-related topics. The goal is to build the student's network of contact persons in the field and to encourage the student's continued work in physiology. If you are interested in mentoring a travel fellow, please contact Brooke Bruthers, Awards Coordinator, APS Education Office, at [bbruthers@the-aps.org](mailto:bbruthers@the-aps.org) or 301-634-7226 or see the APS web site at [http://www.the-aps.org/education/minority\\_prog/travel.htm](http://www.the-aps.org/education/minority_prog/travel.htm).

**The Porter Physiology Fellowships for minorities** are 1-year fellowships that provide a stipend of \$18,000. The fellowships are open to underrepresented ethnic minority applicants (African Americans, Hispanics, Native Americans, Native Alaskans, or Pacific Islanders) who are citizens or permanent residents of the United States or its territories. Applicants must have been accepted into or currently be enrolled in a graduate program pursuing an advanced degree in the physiological sciences. Next Deadline: June 15, 2003. For more information or an application, see the APS website at [http://www.the-aps.org/education/minority\\_prog/porterfell.htm](http://www.the-aps.org/education/minority_prog/porterfell.htm) or contact the APS Education Office at [education@the-aps.org](mailto:education@the-aps.org) or 301-634-7132.

Contributed by John Cuppoletti

## **35<sup>th</sup> INTERNATIONAL CONGRESS OF PHYSIOLOGICAL SCIENCES**

The United States will host the 35<sup>th</sup> International Congress of Physiological Sciences in April, 2004 in San Diego. The 2005 Congress is being organized by the US National Committee of the IUPS, comprised of the American Physiological Society, Society for Neuroscience, Biomedical Engineering Society, Microcirculatory Society, Society of General Physiologists, and the Society for Integrative and Comparative Biology. The theme of the Congress is "From Genomes to Function." The organizing committee is organizing and raising corporate and member donations for the meeting. If section members have corporate contacts for companies that might be interested in supporting specific seminars, colloquia, satellite, travel fellowships or the meeting in general, please contact Bob Gunn ([rbgunn@emory.edu](mailto:rbgunn@emory.edu)), Section member and member of the National Organizing Committee.

## **DAYTON INTERNATIONAL SYMPOSIUM ON CELL VOLUME AND SIGNAL TRANSDUCTION**

The meeting will be held from September 20-24, 2003. The symposium features some 30 speakers and keynote addresses from international experts in cell volume regulation and signaling as well as young emerging investigators in these fields with an emphasis of the symposium to interconnect/cross fertilize the general areas of cardiovascular, gastrointestinal and neurobiological cell systems. Specifically the symposium will address electrically silent membrane transporters, volume sensitive ion channels, regulation by signal transduction and cytoskeleton, organic osmolyte transport, volume in cell survival and apoptosis, and the use of new technologies such as proteomics.

Details may be obtained on the continuously updated Website:

[www.med.wright.edu/phys/cell](http://www.med.wright.edu/phys/cell) as well as from APS Cell Council Member [peter.lauf@wright.edu](mailto:peter.lauf@wright.edu)

Contributed by Peter Lauf

\*\*\*\*

**REQUEST FOR EB 2003**  
**CELL AND MOLECULAR PHYSIOLOGY SECTION**  
**BANQUET TICKETS**

**SUNDAY, APRIL 13, 2003**  
**HARBOR HOUSE RESTAURANT**  
**831 W. HARBOR DRIVE**  
**SAN DIEGO, CA**

**APPETIZERS & SOCIAL HOUR, 6:30 pm**  
**DINNER, 7:30 pm**

\$35 Member Number of tickets needed \_\_\_\_\_

\$17.50 Students and postdoctoral fellows of Section members  
Number of tickets needed \_\_\_\_\_

Please provide names of all attendees for which you are requesting tickets (please print):

Mailing information for tickets:

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone no. \_\_\_\_\_ Email \_\_\_\_\_

Total amount enclosed for ticket(s) \_\_\_\_\_

Send completed form and check (*payable to Cell and Molecular Physiology Section*) to:

Carole M. Liedtke, Ph.D.  
Department of Pediatrics  
2109 Adelbert Rd.  
BRB, Rm. 824  
Cleveland, OH 44106-4948  
CXL7@PO.CWRU.EDU

**APS CELL & MOLECULAR SECTION  
STEERING COMMITTEE ROSTER**

**Chair:**

Michael L. Jennings, Ph.D. (2001-2004)  
Department of Physiology and Biophysics  
University of Arkansas Medical Sciences  
4301 W. Markham St. MS 505  
Little Rock, Arkansas 72205-7199  
Phone (501) 296-1438  
FAX (501) 686-8167  
E-mail: [jenningsmichaell@exchange.uams.edu](mailto:jenningsmichaell@exchange.uams.edu)

**Vice-Chair:**

Carole M. Liedtke, Ph.D. (2002-2006)  
Department of Pediatrics  
Case Western Reserve University  
2109 Adelbert Rd. BRB 824  
Cleveland, OH 44106-4948  
Phone (216)-368-4626  
FAX (216)-368-4223  
E-mail: [CXL7@PO.CWRU.EDU](mailto:CXL7@PO.CWRU.EDU)

**Program Advisors:**

John Payne, Ph.D. (2002-2006)  
Department of Human Physiology  
University of California-Davis  
School of Medicine  
One Shields Ave.  
Davis, CA 95616  
Phone (530)-752-1359  
FAX (530)-752-5423  
E-mail: [japayne@ucdavis.edu](mailto:japayne@ucdavis.edu)

Ronald M. Lynch, Ph.D. (2001-2005)  
Department of Physiology  
University of Arizona Health Science Center  
Tucson, AZ 85724  
Phone (520)-626-2472  
FAX (520)-626-2383  
E-mail: [rlynch@u.arizona.edu](mailto:rlynch@u.arizona.edu)

**Post-doctoral Fellow Representative:**

Caroline R. Sussman, Ph.D. (2001-2004)  
Department of Pharmacology  
Case Western Reserve University  
10900 Euclid Ave.  
Cleveland, OH 44106  
Phone (216)-368-0518  
FAX (216)-368-3395  
E-mail: [crs13@po.cwru.edu](mailto:crs13@po.cwru.edu)

**Councillors:**

John Cuppoletti, Ph.D. (2001-2004)  
Molecular and Cellular Physiology  
Department of Internal Medicine  
University of Cincinnati College of Medicine  
P.O. Box 670576  
231 Bethesda Ave.  
Cincinnati, OH 45276-0576  
Phone (513)-558-3022  
FAX (513)-558-5738  
E-mail: [john.cuppoletti@uc.edu](mailto:john.cuppoletti@uc.edu)

Peter K. Lauf, Ph.D. (2001-2004)  
Department of Physiology & Biophysics  
Wright State University  
School of Medicine  
Dayton, OH 45435  
Phone (937)-775-3024  
FAX (937)-775-3769  
E-mail: [peter.lauf@wright.edu](mailto:peter.lauf@wright.edu)

Alicia A. McDonough, Ph.D. (2001-2004)  
Department of Physiology and Biophysics  
University of Southern California  
School of Medicine  
1333 San Pueblo St. MMR 626  
Los Angeles, CA 90089-9142  
Phone (323)-442-1238  
FAX (323)-442-2283  
E-mail: [mcdonoug@hsc.usc.edu](mailto:mcdonoug@hsc.usc.edu)

**Ex-Officio, AJP:Cell Editor**

Dennis Brown, Ph.D.  
Massachusetts General Hospital E  
Program in Membrane Biology, Renal Unit  
149 13<sup>th</sup> St.  
Charlestown, MA 02129  
Phone (617)-726-5665  
FAX (617)-720-5669  
E-mail: [brown@receptor.mgh.harvard.edu](mailto:brown@receptor.mgh.harvard.edu)