

# AMERICAN PHYSIOLOGICAL SOCIETY

## CELL & MOLECULAR SECTION NEWSLETTER

Spring 2001

### CHAIR'S MESSAGE

During my past three years as Chair, the Cell and Molecular Section has made great progress in *Programs* under Simon Lewis, *Awards* under Chip Montrose, and *Communications* under Martha O'Donnell. We have also expanded and defined the duties of the Section Executive Committee members as well as changed the section name from *Cell and General Physiology Section* to *Cell and Molecular Physiology Section (CAMPS)*. We have evolved (devolved) into having no business meeting of the Section at the annual APS meeting at Experimental Biology except at the Dinner. So you must to come to the Section Dinner in order to put in your two-cents worth except during elections and emailing the Executive Committee members.

The Section Executive Committee has so far acted also as the Program Committee under the guidance of Simon Lewis and Pete Cala. Pete Cala will be the new Senior Program Officer beginning in April. He will represent the Section on the Joint Program Committee which plans the APS meeting at Experimental Biology.

I have represented the Section on the SAC (Section Advisory Committee) whose members also form the nominating committee for the society under the chairmanship of the past president. The Cell and Molecular Section has worked closely with the Renal Section to get many of the excellent candidates on the ballot for President and Council. The Epithelial Group (not a Section yet) has also been a collaborator with the Cell and Molecular Section in Programming. These multi-partisan collaborations have strengthened the role of the Section in the Society as well as strengthened the Society as a whole.

There remains much for the Section and the new officers (See *Election Results* in this Newsletter) to do. Developing the pipeline of suggested symposia and speakers; regularizing the communications and elections; sponsoring APS and FASEB special conferences; updating the Cell and General Physiology part of the Medical Physiology Core Learning Objectives.

I hope to see each of you at FASEB – Experimental Biology 2001 and at the Cell and Molecular Section Dinner on Monday evening (April 2, 2001) during the meeting in Orlando, FL. The Dinner Program along with how to buy tickets (highly subsidized by the Section) are elsewhere in this Newsletter.

- Bob Gunn

## **ELECTION RESULTS**

The results of our recent election are in. Newly elected to the Cell and Molecular Physiology Section Steering Committee are:

**Section Chair: Michael Jennings**

**Councilor: John Cuppoletti and Peter Lauf**

**Program Officer: Ronald Lynch**

**Postdoctoral Fellow Representative: Caroline Sussman**

More information about these new Steering Committee members can be found on the back pages of this newsletter, along with information about continuing committee members. We really need member participation to make this the best Section possible, so PLEASE contact us any time with your comments and suggestions.

## **EXPERIMENTAL BIOLOGY 2001**

The Experimental Biology 2001 meeting will be held in Orlando, Florida from Saturday, March 31<sup>st</sup> through Wednesday, April 4th. Some of the meeting highlights that you should note are:

### ***HUGH DAVSON DISTINGUISHED LECTURE:***

#### **Introducing... Carolyn Slayman, Ph.D.**

Dr. Carolyn Slayman, Sterling Professor of Genetics at Yale, will be **the Hugh Davson Distinguished Lecturer** of the Cell and Molecular Physiology Section at Experimental Biology. Professor Slayman will present the lecture, **“Structure, Function and Biogenesis of a Model Cation Pump” on Monday, April 2, 2001 at 10:15 a.m. in Room 311 C/D of the Orlando Convention Center.** *PLEASE MARK YOUR CALENDAR NOW!!*

Dr. Slayman received her BA from Swarthmore, her Ph.D. from Rockefeller University and her postdoctoral fellowship at Cambridge University. Dr. Slayman began her faculty career as an instructor, then Assistant Professor at Western Reserve. She then joined the faculty at Yale University School of Medicine where she moved from Assistant Professor to Chair of the Department of Human Genetics. She now serves as the Deputy Dean for Academic and Science Affairs at Yale University School of Medicine, a position she has held since 1995.

Dr. Carolyn Slayman is synonymous with transport in *Neurospora crassa*. She has developed this yeast as a model genetic system for the study of transport proteins, kinetics and regulation. In early work on potassium transport and electron transport in *Neurospora* mitochondria to phosphate transporter genetics to plasma membrane H<sup>+</sup>-ATPase structure and function, she has made major contributions to our understanding of cell membrane transporters. She has added genetic techniques and cell biology methods to quantitative cell and molecular physiology to develop an understanding of specific residues and transmembrane segments in the biogenesis and function of cation pumps. This will be her topic for the Davson Lecture this year.

## ***DISTINGUISHED SPEAKER LUNCHEON FOR STUDENTS AND POST-DOCTORAL FELLOWS***

**STUDENTS AND POSTDOCS:** Here's your opportunity to have lunch with Dr. Slayman in a small group setting! On **Monday, April 2nd at 12:00 noon**, a "Meet the Distinguished Lecturer Luncheon" will be held in Room 414A of the Orange County Convention Center. This is a **FREE LUNCH**. Seating is limited to 14 students and/or postdoctoral fellows. You must be a Section member or be in training with a Section member. To reserve a spot, send your request to Martha O'Donnell (see also the enclosed form). You can send in your reservation via postal mail, fax or email (meodonnell@ucdavis.edu). Reservations will be on a first come, first served basis.

## ***CELL AND MOLECULAR SECTION BANQUET***

The Cell and Molecular Section will hold its EB 2001 Banquet on **Monday, April 2nd**, at **Ming Court, 9188 International Drive, Orlando, Florida 32819** (very close to the Convention Center).

The banquet will start with a cocktail/social hour at 6:30 followed by dinner at 7:30 p.m. The banquet speaker this year will be **DOUG EATON, Ph.D.** The title of his talk is "**Egad, Not another Channel; or ENaC, ENaC everywhere". This is an important "networking" opportunity for students, postdoctoral fellows and other young investigators. Please spread the word! Tickets for the dinner are \$35 for Section members and only \$17.50 for students and Postdoctoral Fellows of Section members. *Please note* that this year, a brief Cell and Molecular Physiology Section business meeting will be held during the banquet.**

The restaurant we have chosen this year has a reputation for excellent cuisine and it is also located very close to the Convention Center. To keep ticket costs at an affordable level, the Section is subsidizing the banquet tickets this year.

**IMPORTANT:** All tickets must be purchased BEFORE the meeting. We will not be able to sell banquet tickets at the EB 2001 meeting. For tickets, send a completed banquet ticket request form with a check (*payable to APS:Cell and Molecular Section*) to Dr. Martha O'Donnell, Department of Human Physiology, University of California, One Shields Drive, Davis, CA 95616.

Ticket requests forms are enclosed with this newsletter.

## ***CELL AND MOLECULAR PHYSIOLOGY SECTION TRAINEE AWARDS***

We are pleased to announce the winners from our annual awards competition for predoctoral and postdoctoral trainees. First of all, *thank you* to all the trainees who applied for our awards in this cycle. All the abstracts were outstanding, and challenged the Steering Committee to decide on the most meritorious. Without further delay, the winners are....

Student Award (Predoctoral category)

***Scott Earley***

University of New Mexico, laboratory of Dr. Thomas Resta

**James Roussie**

University of Rochester, laboratory of Dr. George Kimmich.

Young Investigator Award (postdoctoral category)

**Dr. Shi-Qiang Wang**

National Institute on Aging, laboratory of Dr. Heping Cheng

**Dr. Eric Rutledge**

Vanderbilt University, laboratory of Dr. Kevin Strange

We are also pleased to announce that our section has awarded the Procter and Gamble Award (to predoctoral students allowing them to attend EB01) to **Julie Ponthier** from Louisiana State University.

CONGRATULATIONS TO ALL OUR AWARD WINNERS! Awards will be presented to the winners at our Banquet so be sure to come and congratulate them in person!

*N.B. Trainee awards required that applicants be either primary affiliates of the Cell and Molecular Physiology Section or their mentors be primary affiliates. Due to tremendous interest from the membership, our section's Steering Committee has decided to open the competition next year to both primary AND secondary affiliates of the section.*

## ***EB 2001 SYMPOSIA AND FEATURED TOPICS SPONSORED BY THE CELL AND MOLECULAR SECTION***

**Be sure to attend these Section-sponsored symposia and featured topics!**

### ***SYMPOSIA:***

**TITLE: TIGHT JUNCTIONS: CONVERGENCE OF MOLECULAR AND PHYSIOLOGIC INSIGHTS**

Chaired: James M. Anderson

Sunday, April 1<sup>st</sup>, 3:15 p.m.-5:15 p.m., Convention Center Room 311 C/D

**TITLE: MODEL ORGANISMS: FUNCTIONAL GENOMICS OF MEMBRANE TRANSPORT**

Chaired: Kevin Strange

Monday, April 2<sup>nd</sup>, 3:15 p.m.-5:15 p.m., Convention Center Room 311 C/D

### ***FEATURED TOPICS:***

**TOPIC: CALCIUM SENSING RECEPTORS**

Chaired: Gerda Breitwieser

Wednesday, April 4<sup>th</sup>, 10:15 a.m.-12:14 a.m., Convention Center Room 311F

**TOPIC: PHYSIOLOGY OF UREA TRANSPORTER**

Chaired: Bob Gunn and Jeff Sands

Sunday, April 1<sup>st</sup>, 10:15 p.m.-12:15 p.m., Convention Center Room 313

**TOPIC: ELECTRONEUTRAL ION TRANSPORT IN THE CENTRAL NERVOUS SYSTEM**

Chaired: John Payne

Monday, April 2<sup>nd</sup>, 3:15 p.m.-5:15 p.m., Convention Center Room 312A

## **MESSAGE FROM THE EDITOR OF THE AMERICAN JOURNAL OF PHYSIOLOGY: CELL**

It has been a hectic year for AJP-Cell Physiology. Perhaps rather sooner than we (or the Society) had planned, we became guinea pigs for the on-line manuscript review and submission system, APS Central. Because our entry into the process was a little more precipitous than we would have liked, coupled with some staff turnover in editorial offices, the first few months with the system required a steep learning curve, and I apologize to any members of the section whose manuscripts did not receive as timely a review as they deserved during this teething period. However, the Associate Editors and I, as well as our assistants, and hopefully our authors and reviewers, feel that most of the bugs are out of the system at this point, and that our input had real value in streamlining the submission and review process. APS Central does, however, remain very much a work in progress, and I hope that you will not hesitate to contact me if you have suggestions that could further improve its utility or “user-friendliness”. In the meantime, I believe we will all ultimately benefit from the savings in both time and money involved in the review process, and corresponding increases in efficiency, when submitting to the Journal. I am sure that these issues, coupled with the ongoing strength of the Journal and its increasing impact factor, have contributed to the fact that we have seen an increase in our submission rate over the past year.

2000 was also notable for the Journal in that we published two “Calls for Papers” to encourage submissions in areas that we wished to highlight — in the case of these initial efforts, on using model organisms to define the structure and function of membrane transporters, and on the cytoskeleton and non-muscle motility. Kevin Strange and Kathy Morgan worked very hard to coordinate the review process for the manuscripts submitted in response to these calls, and the fruits of their labors will start to appear in the Journal very shortly.

In closing, I would like to thank the membership of the Section for their support of the Journal over the past year. I have been continuously impressed by the high quality of the very exciting papers we have been receiving, and I believe our covers contain more ground-breaking, and diverse, content than ever before. As always, I remain open to your comments and suggestions as to how we can improve the Journal still further.

*Kim E. Barrett*

**APS: CELL SECTION STEERING COMMITTEE ROSTER**  
**Current (through April 2001)**

**Chair:**

Robert B. Gunn, M.D. (1998-2001)  
Department of Physiology  
Emory University School of Medicine  
Physiology Building, Rm 149  
Atlanta, GA 30322-3110  
(404) 727-7410 FAX (494) 727-2648  
gunn@physio.emory.edu

**Vice-Chair:**

Martha E. O'Donnell, Ph.D. (1998-2002)  
Department of Human Physiology  
Univ. of California, Davis, School of Medicine  
Tupper Hall  
One Shields Ave.  
Davis, CA 95616  
(530) 752-7626 FAX (530) 752-5423  
meodonnell@ucdavis.edu

**Program Advisor**

Simon A. Lewis, Ph.D. (1997-2001)  
Department of Physiology and Biophysics  
University of Texas Medical Branch  
Galveston, TX 77555-0641  
(409) 772-3397 FAX (409) 772-3381  
slewis@utmb.edu

**Program Advisor:**

Peter M. Cala, Ph.D. (1998-2002)  
Department of Human Physiology  
Univ. of California, Davis, School of Medicine  
Tupper Hall  
One Shields Ave.  
Davis, CA 95616  
(530) 752-1285 FAX: (530) 752-5423  
pmcala@ucdavis.edu

**Councillor**

Marshall H. Montrose, Ph.D. (1998-2001)  
Indiana University  
MS 307  
635 Barnhill Drive  
Indianapolis, IN 46202  
(317) 278-3674 FAX: (317) 278-3840  
mmontros@iupui.edu

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

Kim E. Barrett, Ph.D.  
Editor, *AJP: Cell* UCSD Medical Center 8414  
200 West Arbor Drive  
San Diego, CA 92103, USA  
Voice: (619) 543-7201  
FAX: (619) 543-3541  
kbarrett@ucsd.edu

**APS: CELL SECTION STEERING COMMITTEE ROSTER**  
**New (April 2001 and beyond)**

**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  
(501) 296-1438 FAX (501) 686-8167  
jenningsmichaell@exchange.uams.edu

**Vice-Chair:**

Martha E. O'Donnell, Ph.D. (1998-2002)  
Department of Human Physiology  
Univ. of California, Davis, School of Medicine  
Tupper Hall  
One Shields Ave.  
Davis, CA 95616  
(530) 752-7626 FAX (530) 752-5423  
meodonnell@ucdavis.edu

**Program Advisor:**

Peter M. Cala, Ph.D. (1998-2002)  
Department of Human Physiology  
Univ. of California, Davis, School of Medicine  
Tupper Hall  
One Shields Ave.  
Davis, CA 95616  
(530) 752-1285 FAX: (530) 752-5423  
pmcala@ucdavis.edu

**Program Advisor:**

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

**Councillor**

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, Ohio 45267-0576  
(513) 558-3022 FAX (513) 558-5738  
john.cuppolletti@uc.edu

**Councillor**

Peter K. Lauf, Ph.D. (2001-2004)  
Department of Physiology and Biophysics  
Wright State University  
School of Medicine  
Dayton, Ohio 45435  
(937) 775-3024 FAX (937) 775-3769  
peter.lauf@wright.edu

**Post-doctoral Fellow Representative:**

Caroline R. Sussman, Ph.D. (2001-2004)  
Department of Neuroscience  
Case Western Reserve University  
School of Medicine  
10900 Euclid Ave.  
Cleveland, Ohio 44106-4975  
(216) 368-6170 FAX (216) 368-4650  
crs13@po.cwru.edu

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

Kim E. Barrett, Ph.D.  
Editor, *AJP: Cell* UCSD Medical Center 8414  
200 West Arbor Drive  
San Diego, CA 92103, USA  
Voice: (619) 543-7201  
FAX: (619) 543-3541  
kbarrett@ucsd.edu

**REQUEST FOR EB 2001**  
**CELL AND MOLECULAR PHYSIOLOGY SECTION**  
***BANQUET TICKETS***

MONDAY, APRIL 2ND  
*Ming Court Restaurant*

9188 INTERNATIONAL DRIVE  
ORLANDO, FL

**APPETIZERS & SOCIAL HOUR/6:30 P.M.**  
**DINNER 7:30 P.M.**

**\$35 Members** Number of tickets needed \_\_\_\_\_

**\$17.5 Students and Postdocs of section members** Number of tickets needed \_\_\_\_\_

Please provide names of all attendees for which you are requesting tickets:

Mailing information for tickets:

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone No. \_\_\_\_\_ Email \_\_\_\_\_

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

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

Martha E. O'Donnell  
Department of Human Physiology  
Tupper Hall  
University of California  
One Shields Ave.  
Davis, CA 95616  
[meodonnell@ucdavis.edu](mailto:meodonnell@ucdavis.edu)

REQUEST FOR TICKETS  
EB2001  
CELL AND MOLECULAR PHYSIOLOGY SECTION  
MEET THE DISTINGUISHED LECTURER LUNCHEON  
MONDAY, APRIL 2ND  
12:00 noon  
ROOM 414A, ORANGE COUNTY ORLANDO CONVENTION CENTER, ORLANDO

Name: \_\_\_\_\_

Are you a:

Student \_\_\_\_\_ ? Postdoctoral fellow \_\_\_\_\_ ?

Name of your current graduate/postdoctoral professor:

\_\_\_\_\_

Mailing information for tickets:

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone No. \_\_\_\_\_ Email \_\_\_\_\_

Send completed form to:

Dr. Martha E. O'Donnell

Department of Human Physiology

Tupper Hall

University of California

One Shields Ave.

Davis, CA 95616

meodonnell@ucdavis.edu