

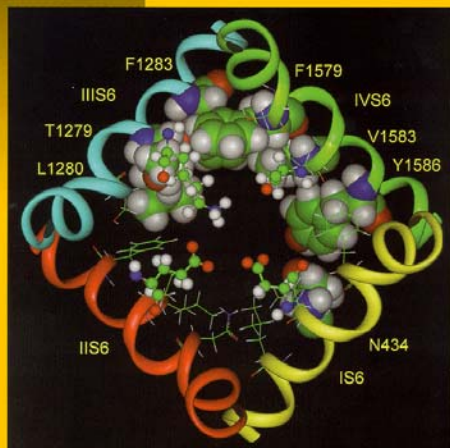
The Pharmacologist

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MOLECULAR

PHARMACOLOGY



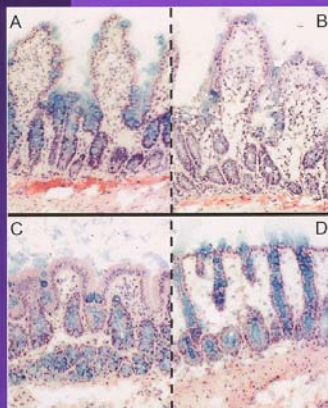
A Publication of the American Society for
Pharmacology and Experimental Therapeutics

P. Jeffrey Conn,
of Vanderbilt
University,
named new
Editor of
*Molecular
Pharmacology*



Volume 33 • Number 11 • November 2005 • ISSN 0090-9556

DRUG METABOLISM AND DISPOSITION



A Publication of the
American Society for Pharmacology
and Experimental Therapeutics

Edited for the Society by James R. Halpert

Eric F. Johnson,
of Scripps
Research
Institute, named
new Editor of
*Drug
Metabolism and
Disposition*



The PHARMACOLOGIST

The Pharmacologist is published and distributed by the American Society for Pharmacology and Experimental Therapeutics.

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Prices for the member subscriptions to the print version of *The Pharmacologist* will go up in 2006 to \$20 per year.

This price increase is based on the actual cost to print and mail each edition of *The Pharmacologist* independent of any of the costs involved in producing the content.

Nonmembers and Institutional subscriptions will increase to \$45 (\$65 outside the U.S.)

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ASPET assumes no responsibility for the statements and opinions advanced by contributors to *The Pharmacologist*.

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Postmaster: Send address changes to: *The Pharmacologist*, ASPET, 9650 Rockville Pike, Bethesda, MD 20814-3995.



ASPET Election Now Open

The ASPET election for President-Elect, Secretary/Treasurer-Elect, and a Councilor is now open. All Regular and Retired members are eligible to vote. In addition, the following Divisions are holding elections: Behavioral Pharmacology; Cardiovascular Pharmacology; Drug Discovery, Drug Development & Regulatory Affairs; Drug Metabolism; Molecular Pharmacology; Neuropharmacology; Pharmacology Education; and Toxicology. Those of you with email will receive an email when the election ballot opens and will be given the link to use to access the Members Only section of the ASPET web site. Your eligible to vote. If you do not have email, you will be with a paper ballot and return envelope. You **MUST** name in order for your ballot to be counted. The listed on the address label on your election packet.



You may also access the ballot from the email will list the Divisions in which you are sent a paper copy of the election bulletin along sign the return envelope and legibly print your divisions in which you are eligible to vote will be

There are two ways to view the nominee's biographical posted in PDF format on the web site. You can also click on the name of the nominee on the ballot, and the biographical sketch will appear in a pop-up window.

sketches online. The full election bulletin will be

As required by the bylaws, the election site on the web will be open for a minimum of thirty days from the day of notification. Voting is easy. Just click on the radio button next to the name of the candidate for whom you are voting. When you are finished and have reviewed your choices, click the SUBMIT button.

Nominees for ASPET Office

Candidates for President-Elect



Kenneth P. Minneman



Kim A. Neve

Candidates for Secretary/Treasurer-Elect



Jerry J. Buccafusco



Annette E. Fleckenstein

Candidates for Councilor



Terrence J. Monks



Benjamin R. Yerxa



ELECTION 2006

Candidates for Division Office

Division for Behavioral Pharmacology

Nominees for Chair-Elect

Charles P. France
Galen R. Wenger

Nominees for Secretary/Treasurer-Elect

Leonard L. Howell
Wouter Koek

Division for Cardiovascular Pharmacology

Nominees for Chair-Elect

Debra I. Diz
Richard H. Kennedy

Nominees for Secretary/Treasurer-Elect

John C. Kermode
Kafait U. Malik
Emel Songu-Mize

Division for Drug Discovery, Drug Development & Regulatory Affairs

Nominees for Chair-Elect

Gary D. Novack
Christopher R. Toombs

Nominee for Secretary/Treasurer-Elect

Richard Alper

Division for Drug Metabolism

Nominees for Chair-Elect

Thomas A. Kocarek
Kenneth E. Thummel

Nominees for Secretary/Treasurer-Elect

John Y.L. Chang
Emily E. Scott

Division for Molecular Pharmacology

Nominees for Chair-Elect

Alan V. Smrcka
Robert H. Tukey

Nominees for Secretary/Treasurer-Elect

Theresa M. Filtz
Tatyana Voyno-Yasenetskaya

Division for Neuropharmacology

Nominees for Chair-Elect

P. Jeffrey Conn
L. Charles Murrin

Nominees for Secretary/Treasurer-Elect

Margarita L. Dubocovich
Kelly M. Standifer

Division for Pharmacology Education

Nominee for Secretary/Treasurer-Elect

Jack W. Strandhoy

Division for Toxicology

Nominees for Chair-Elect

Hartmut W. Jaeschke
Curtis J. Omiecinski

Nominees for Secretary/Treasurer-Elect

Lawrence R. Curtis
Peter J. Harvison

No elections this year for the Division for Clinical Pharmacology & Translational Medicine or the Division for Systems & Integrative Pharmacology



ASPET Long Range Planning Committee Retreat Addresses Committee Structure and Function

ASPET's Long Range Planning Committee held a retreat on October 27-28, 2005, to discuss the roles and structures of the Society's committees. In addition to members of ASPET Council, the chairs of the committees on Women in Pharmacology (Laura Nisenbaum), Graduate Recruitment and Education (Stephanie Watts), Minorities (Gonzalo Torres) and Public Affairs (Gerald Schaefer) were also participants. The following report summarizes the outcome of that retreat.

GENERAL DISCUSSION & ACTIONS

- The Committee on Committees will continue to appoint Committee chairs. The Committee chairs will be responsible for recruiting replacement members for their committees and notifying the Committee on Committees of their actions.
- There will be one single award committee for the Goodman and Gilman Award, the J. J. Abel Award, the Pharmacia-ASPET Award, and the Torald Sollmann Award comprised of sufficient members to enable adequate coverage of the topics under review.
- Council will look into the financial feasibility of having at least one additional face-to-face committee meeting for the Public Affairs, Women in Pharmacology, Minorities, and Graduate Recruitment and Education Committees, beginning in 2006.
- Insofar as possible, the ASPET representatives to FASEB committees should be drawn from the corresponding Society committee.
- Secretary/Treasure (Past, Current, Elect) will review the IUPHAR Travel Award Applications.

PUBLIC AFFAIRS COMMITTEE

Mission/Charge: The charge to the Committee on Public Affairs is to: Identify, or respond to, issues of interest to the ASPET membership and propose policy statements for consideration by the Board and membership; Develop ways to increase ASPET's visibility in the public policy and public information arena; and Develop opportunities for ASPET members to become more involved in public affairs advocacy.

No changes were made to Committee charge

- Affirm the committee will respond, as a priority, to public affairs issues that are of unique interest to ASPET members. Priority given to those pharmacology related issues that the society might be able to favorably impact.
- Affirm that the committee will follow and monitor a broad range of issues that impact the larger biomedical research community to include NIH appropriations and related budget issues, and other ad hoc policy issues that develop.

Goals: Need to raise Public Affairs Committee profile with ASPET rank and file membership

- Committee will be more proactive in using ASPET email notices to membership on specific legislative issues of interest to broader biomedical research community. It was felt that ASPET alerts on these issues would help raise the society public affairs profile and that ASPET alerts would be sent in a more time sensitive manner than waiting for the FASEB alert to society members. (Examples: Class B Dealers, NIH appropriations)
- ASPET public affairs presentation to the Association of Medical School Pharmacology Chairs (AMSPC) should be encouraged and a closer working arrangement could be considered.
- To help increase awareness among students, the committee will continue to hold workshops and symposia relevant to public affairs issue that are of interest to the student membership. (Example: Workshop on jobs in industry for scientists with integrative training)
- Reappointment of dedicated committee members to successive 3-year terms should be considered the norm and not the exception.
- Consider AMSPC as a source for potential public affairs committee assignment.

Benchmarks: Maintain current activities

- Continue organizing and cosponsoring workshops and symposia at EB as in preceding years.
- Continue outreach to other professional societies such as SOT and ASCPT on areas of mutual interest. (Example: Cosponsorship with SOT/ASCPT of a 1/05 Congressional briefing on dietary supplements)



LONG RANGE PLANNING COMMITTEE

- Continue ad hoc relationships with other FASEB and non-FASEB societies as needed.

The Public Affairs Committee breakout group also offered as information items for potential consideration of Council:

- An EB 2007 Symposium on How Researchers Can Be Deposed. The title is a work in progress. The agenda would include but not be limited to animal rights issues, pharmacology law, and issues involving litigation (i.e., Vioxx depositions). Bryan Cox agreed to consider offering a more thorough outline and proposal for Council's consideration.
- Consider the potential for developing comprehensive plans for saving laboratory animals in the event of natural or other disasters. Potential interested parties include AAALAC and NIH.

General conclusion of the committee was that it was working fairly well and provided important oversight and guidance to staff.

COMMITTEE ON WOMEN IN PHARMACOLOGY

Mission: The mission of the Women in Pharmacology Committee is to further the success of women in pharmacology and to promote awareness of pharmacology in women's health.

Goals and Objectives:

- To identify and elucidate the stages of career development and provide women with tools to succeed.
 - Workshops
 - Web site (links to AWIS, WIN, list and pictures of Women Department Chairs)
 - Networking (WIP into Shape Walk, Social Mixer, Special Events)
 - Mentorship – Education of Senior Members to elicit potential mentors at Social Mixer
- To increase the visibility of women in pharmacology.
 - Identify women as potential leaders and keep them motivated
 - Submit female nominees for ASPET Awards
- To disseminate information on issues related to pharmacology in women's health
 - Web Site (links to health-related sites)
 - Scientific symposia

Benchmarks:

- Annual workshops
- Biennial scientific symposia
- Create WIP page on ASPET Web site
- Small meeting on Pharmacology and Women's Health

COMMITTEE ON MINORITIES

Mission:

To develop strategies to attract minority students into science in general and pharmacology in particular and work with ASPET membership to address issues of relevance to recruitment, retention and advancement of minorities in science and pharmacology.

Metrics: How to measure impact and effectiveness?

Collect information on underrepresented minorities – Get baseline

Questionnaire to all ASPET members

1. Place of employment – academia, industry, other
2. Rank – faculty, postdoc, scientist, manager
3. How long in current job
4. Age
5. Gender
6. Ethnic background: Give options
7. Length of ASPET membership
8. Willing to be a mentor to a minority?

Reassess every 5 years.



LONG RANGE PLANNING COMMITTEE

Strategies: Seek ways of developing partnership between ASPET and Minority institutions.

Recognize that there are barriers to minority advancement in all spheres – not just recruitment, but in promotion, funding, etc. – Need to focus on manageable issues to start but recognize this is a continuing process.

- Pilot program
 - Identify target schools
 - Identify and highlight Minorities in Pharmacology
 - Recruit mentors and “mentees” to attend ASPET meeting
 - 1) Work with identified faculty
 - 2) Work with regional chapters
- Need to involve Minority Committee members to help draft charge to committee.
- Examine ways to expand function of SACNAS – greater presence - interface with attendees – coordinate with Program Committee.
- Awards – ASK AMSPC Department chairs to nominate minority members for awards.
- Career development symposia sponsored by committee.
- Chair of Minority Committee to talk to other Societies to try to coordinate topics at annual meeting.
- Charge to committee to identify minority and underrepresented members conducting research.
- President’s newsletter – minorities and women.
- FASEB MARC Program – “Grass” traveling fellowship (ASPET Member) to go to identified schools for lectureship.
- Identify Minority ASPET Members that have made significant contributions and recognize them in some way to help as role models and contacts.
- Graduate students and young investigators minority travel awards. Provide awardees with a mentorship contact (one on one) during the annual meeting.

GRADUATE RECRUITMENT & EDUCATION COMMITTEE

- Must get input from whole committee
 - draft document, follow with assignments & conference calls
- Committee Approved document to Council, March ‘06
- Document critiqued/discussed at EB 2006, revise as necessary.
- Flush out document into a Committee Strategic Plan

Mission: To facilitate the

- Recruitment of students to graduate pharmacology
- Training of students in graduate pharmacology
- Success of our students in today’s diverse pharmacological careers

Simpler Mission: To facilitate the recruitment, training and career success of students choosing graduate pharmacology.

Goal 1 – Recruitment

- Create/assemble a tool kit for departments to use to reach their undergraduates.
 - Flyer of successful SURF students
 - PowerPoint presentation based on Explore Pharmacology
 - Ask: How are they doing this now?
- Continue to support/review SURF
- Survey Graduate Directors as to presence of undergraduate pharmacology courses/programs/research opportunities
- Ask: What would help the tool kit?
- Talk to our current students

Goal 2 – Current Graduate Education in Pharmacology

- Continue to support (\$ and effort) Graduate Directors’ meeting
- Disseminate/update information of all kinds back out to Graduate Directors.



LONG RANGE PLANNING COMMITTEE

- At the same time, ask:
 - what courses/programs/degrees (e.g. professional MS) exist at your institution; how is pharmacology represented?
 - what would be helpful
- Keep/recover/foster pharmacology to have a place in umbrella/joint biomedical training (controversy)

Goal 3 – Success in the Future

- Support/Assemble Graduate Colloquium. Topics should be truly relevant & helpful; Survey graduate students to ask
 - What do you want to hear?
 - What worries you?
 - What aren't you learning?
- Highlight the ability of a career in pharmacology to provide diverse opportunities in life
 - More success story vignettes?
 - Student toolbox for success (e.g survival skills/ethics, Zigmond program at Pitt)

Committee Structure:

Must be composed of those that can help fulfill goals

- New student members
- Industrial representative
- Government representative
- Nontraditional representative
- Incorporate more Graduate Directors as turnover occurs

Benchmarks: Committee will set self-imposed deadlines for itself. Need to police actively.



Hurricane Katrina Update

ASPET Council approved several initiatives to assist members who were impacted by Hurricane Katrina and established a Hurricane Katrina Relief Fund to facilitate them. The initiatives included setting up a grant program for ASPET student members to provide \$2000 per person as an unrestricted award to affected student members to help them re-establish their lives. To date, ASPET has made seven such awards to students affected by Hurricane Katrina. In addition, ASPET has agreed to pay the abstract submission fees and meeting registration to Experimental Biology '06 in San Francisco for its member scientists affected by Hurricane Katrina. Finally, dues for 2006 will be waived for those members in New Orleans and other Gulf Coast areas impacted by Hurricane Katrina. The total estimated cost of these initiatives is \$30,000, and Council was prepared to fund them entirely out of the Society's operating budget at the expense of other programs, if necessary. ASPET members, however, have been extremely generous in their donations and to date have contributed \$14,000. This includes a very significant contribution from GlaxoSmithKline.

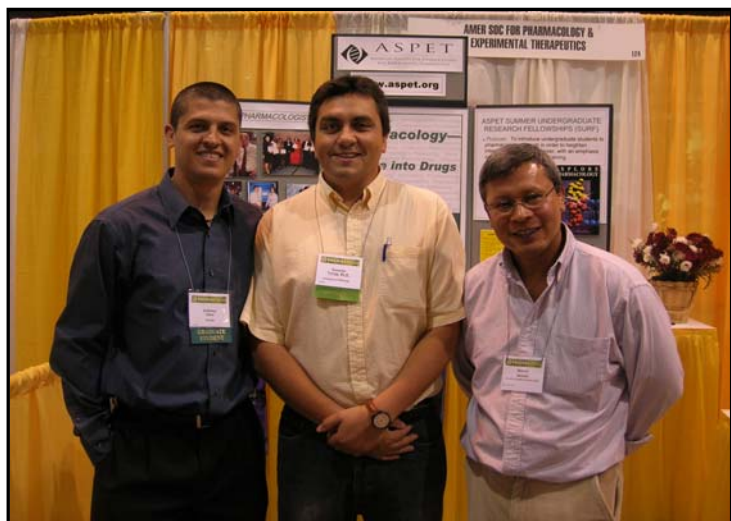
ASPET did other things to try to help members affected by Hurricane Katrina, including posting information about laboratory resources available to scientists whose labs were lost. Over 92 ASPET members responded, offering laboratory or office space, mentoring and even housing. The ASPET Journals office has also held print subscription journals for those areas where mail delivery was a problem or where the libraries have not yet been re-established. These will be sent out to the subscribers as we find out about new addresses and contacts.

While the devastation of Hurricane Katrina has passed for most of us, it is still very real to those scientists who lost their labs and their homes. Many students who applied for grants indicated that they had been set back by at least a year in terms of getting their degrees. There is still much that can be done to help. ASPET has an online form for you to contribute to the Hurricane Katrina Relief Fund. You can access this form at http://www.aspet.org/public/Katrina/Katrina_home.htm.

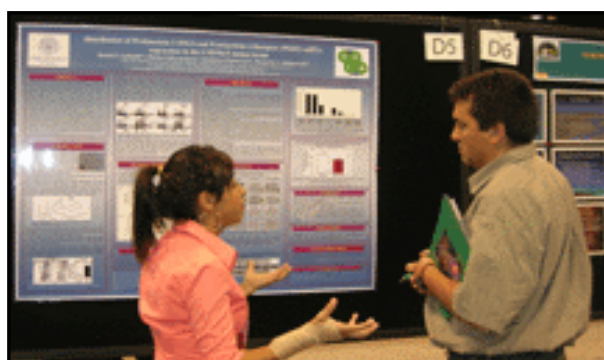
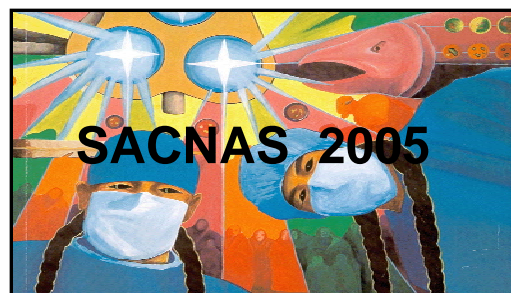


SACNAS and ABRCMS Meetings Provide Opportunity for Members of Committee on Minorities to Educate Undergraduates about Pharmacology

ASPET's Committee on Minorities sent representatives to the two largest minority student meetings to educate the undergraduate attendees about career opportunities in pharmacology and about the ASPET Summer Undergraduate Research Fellowships. The Society for the Advancement of Native Americans in Science (SACNAS) meeting was held October 30 – November 1 in Denver. The Annual Biomedical Research Conference for Minority Students (ABRCMS) was held November 3-6 in Atlanta. **Dr. Gonzalo Torres**, Chair of the Committee on Minorities, attended the SACNAS meeting. **Dr. Manuel Miranda**, a postdoctoral fellow in the Department of Pharmacology at the University of Colorado Health Science Center, and **Mr. Anthony Oliva**, an MD/PhD student at the University of Colorado Health Science Center, assisted at the booth in talking to interested students and faculty.



Gonzalo Torres, Chair of ASPET's Committee on Minorities, is flanked by Anthony Oliva (left) and Manuel Miranda (right) at the ASPET booth in Denver.



Rachel Galimidi, a summer student with Dr. Margarita Dubocovich, explains her poster to Dr. Gonzalo Torres at the SACNAS meeting.



Students view posters and visit booths during SACNAS meeting exhibit hours.



Tony Oliva and Manuel Miranda talk with an interested student.



Dr. Catherine Opere, from Creighton University School of Pharmacy and a member of the ASPET Committee on Minorities, attended the Annual Biomedical Research Conference for Minority Students in Atlanta. She was assisted in the booth by **Shala Thomas**, a graduate student with Dr. Haiyan Fu, from Emory University's Department of Pharmacology. Dr. Opere also presented ASPET Best Poster Awards to **Khadijatou Mjimoluh**, a sophomore from the University of Maryland, Baltimore County, for his poster entitled "**Examining Drug Interactions with the N-Terminal Domain of the HIV-1 Capsid Protein**" and to **Rachel Sang**, a senior from Minnesota State University in Moorhead, for her poster entitled "**Phospholipase D Activity is Required for Alpha 1-Adrenergic Activation of Erk, Stress Fiber Formation, and Cell Migration in CCL39 Fibroblasts.**"



Shala Thomas, a graduate student in pharmacology with Dr. Haiyan Fu at Emory University, talks to ABRCMS attendees about opportunities in pharmacology.



Catherine Opere talks with a student at the ASPET booth.



Josefa Coronel, an undergraduate student member of ASPET from California State University, Hayward, describes her research at the ABRCMS meeting.





EXPERIMENTAL BIOLOGY:
April 1–5, 2006
Moscone Convention Center,
San Francisco, CA

**CALL FOR LATE-BREAKING
ABSTRACTS**

Deadline for Submission:
Wednesday, February 8, 2006
www.cb2006.org

Late-breaking abstracts will be accepted for poster sessions to be scheduled on Wednesday, April 5, 2006. Late-breaking abstracts will be published in an addendum to the meeting program. The addendum will be distributed at the meeting. Late-breaking abstracts will NOT be published in *The FASEB Journal* and are not citable.

Abstracts must be submitted at www.cb2006.org with payment of \$90. Payment and abstracts must be submitted on or before Wednesday, February 8, 2006. The submission site will open the week of Monday, December 5, 2005.

Late Breaking Abstract Submission Site

www.cb2006.org

Abstract Submission Fee: \$90

Experimental Biology Meeting Office

Phone: (301) 634-7010

Fax: (301) 634-7014

Email: eb@faseb.org

For information about the meeting, including each Society's preliminary program, housing, and registration forms go to www.cb2006.org.

Save Money! Register online by February 3 and make your housing reservations by February 24.



ASPET PROGRAM FOR EXPERIMENTAL BIOLOGY 2006 – SAN FRANCISCO, CA

(All rooms listed are in the North & South Moscone Convention Center buildings unless otherwise noted)

Symposia 9:30 AM – 12:00 PM and 3:00 – 5:30 PM Sunday – Tuesday		Symposia 8:30–11:00 AM Wednesday					
Friday March 31	Sunday AM April 2	Sunday PM April 2	Monday AM April 3	Monday PM April 3	Tuesday AM April 4	Tuesday PM April 4	Wednesday AM April 5
Behavioral Pharmacology Society Mtg - Day 1 6:00-9:30 PM Marriott Hotel Separate, pre-registration required Golden Gate A1/A2	Ray Fuller Lecture Novel Signaling Paradigm of Monoamine-mediated Behaviors in Animal Models M.G. Caron 8:15-9:15 AM Room 303	John V. Croker Lecture Pharmacogenomics: A Journey from Phenotype to Genotype R.M. Weinsilboum 1:30-2:30 PM Room 303	ASPET/APS Women's Committees Workshop Mastering the Juggling Act: Laboratory, Life and Leadership Roles A.M. Schreithofer, D.H. Damon, L.K. Nisenbaum 8:00-10:00 AM Room 130	Public Affairs Committee Workshop Training Opportunities for Scientists in Integrative, Whole Organ Pharmacology G.J. Schaefer 12:30-2:00 PM Room 309	CVP (CPTM, SIP) Role of COX-2 in the Regulation of Cardiovascular Function A.L. Hyman, B.R. Lucchesi 9:30 AM-12:00 PM Room 305	FASEB Excellence in Science Award G Proteins & RGS Proteins: Linking Trafficking & Signaling M.G. Farquhar 2:15-3:15	(CPTM, CVP, DDDRA, MP) Mammalian NO Metabolism & Signaling: Physiological & Therapeutic Frontiers D.R. Janero 8:30-11:00 AM Room 303
Saturday April 1							
Behavioral Pharmacology Society Mtg - Day 2 7:30 AM-5:00 PM Marriott Hotel Separate, pre-registration required Yerba Buena 12/13/14	NEU Ray Fuller Symposium Signal Transduction: Relevance to CNS Disorders & Therapeutic Approaches M.G. Caron 9:30 AM-12:00 PM Room 303	DM (TOX) What Regulates the Regulators? Factors that Alter Expression of the Nuclear Receptors which Regulate Drug-Metabolizing Enzymes A.B. Okey, D.S. Riddick 3:00-5:30 PM Room 307	TOX (DM, SIP) Targets of Toxicant Sensitivity in Aging H.M. Mehendale 9:30 AM-12:00 PM Room 303	Bernard B. Brodie Lecture 1:30-2:30 PM Room 307	MP (SIP) New Aspects of Glucocorticoid Signaling P.J. Barnes, J.S. Fedan 9:30 AM-12:00 PM Room 309	Clinical Pharmacology/ Experimental Therapeutics/ Translational Medicine Division Programming Receptor Pharmacogenomics at the Clinical Interface D.A. Flockhart, D.R. Abernethy 3:00-5:00 PM Room 301	MP (DDRA, NEU) Allosteric Modulation of GPCRs: From Small Molecules to Accessory Proteins A. Christopoulos, B.L. Roth 8:30-11:00 AM Room 305
Teaching Institute How to be a Course Director J.W. Strandhoy 12:30-3:00 PM Room 309	CPTM (DDRA, SIP) Imaging Modalities that Bridge Preclinical & Clinical Drug Efficacy B.F. Cox, D.R. Abernethy 9:30 AM-12:00 PM Room 301	CPTM (DDRA, DM, SIP) Pediatric Clinical Pharmacology – Recent Advances & Future Challenges D.G. McCarver, J.S. Leeder 3:00-5:30 PM Room 301	CVP (MP, SIP) Using Genetic Approaches to Define the Role of Adenosine Receptors in the Cardiovascular System J.A. Auchampach 9:30 AM-12:00 PM Room 305	P.B. Dews Award Lecture 1:30-2:30 PM Room 303	DM (DDRA, SIP) Function, Regulation, and Genetic Polymorphisms of the Cytochrome P450 Reductase X. Ding 9:30 AM-12:00 PM Room 301	DM (CPTM, TOX) Metabolic Considerations in the Action of Herbal Medicines T.K.H. Chang 3:00-5:30 PM Room 303	TOX (SIP) Response to Oxidative Stress by Specific Epithelial Cell Types P.R. Mayeux 8:30-11:00 AM Room 301
Graduate Student Colloquium: Pointers for Getting Your Point Across E.J. Bilsky, M.L. Toews 1:00-3:15 PM Room 305	BEH (CP, DDDRA, NEU, SIP) Metabotropic Glutamate Receptors M.F. O'Neill, N. Moore 9:30 AM-12:00 PM Room 309	BEH (DDRA, NEU) 5-HT _{2C} Receptors: Pharmacology & Therapeutic Opportunities S. Rosenzweig-Lipson, J. Bergman 3:00-5:30 PM Room 303	BEH (DDRA, NEU, SIP) Preclinical Models for Cognitive Enhancers: Within Reach or Still Too Great a Stretch? G. Lynch, K.M. Kantak 9:30 AM-12:00 PM Room 309	Behavioral Pharmacology Division Programming Behavioral Pharmacology at 50: A Look at the Future C.A. Paronis, L. Dykstra 3:00-5:30 PM Room 303	NEU (BEH, CPTM, SIP, TOX) Mood Stabilizers & Antidepressants: New Mechanisms for Old Compounds D.-M. Chuang 9:30 AM-12:00 PM Room 307	Toxicology Division Programming Therapeutics and Toxicology of COX-2 Inhibitors J.P. Kehrer 3:00-5:30 PM Room 305	NEU (BEH, CPTM, DDDRA, SIP) Multiple Approaches to NGF Antagonism for Novel Pain Drugs F.F. Hefti 8:30-11:00 AM Room 307
Advances in H ₃ Receptor Research: Implications for Novel Therapeutics (In memory of Art Hancock) T.A. Esbenshade, M.F. Jarvis, M. Williams 2:00-5:30 PM Marriott Hotel Golden Gate A1/A2	TOX (CP, DDDRA, NEU, SIP) Cellular & Molecular Pathways of Neurotoxicity: Relevance to Neurodegenerative Diseases J.L. Cadet 9:30 AM-12:00 PM Room 307	MP (CVP, CPTM, SIP) Cardiac Stem Cells: Revolutionizing Myocardial Biology & Regenerating the Heart M. Sussman 3:00-5:30 PM Room 305	DM Drug Metabolism Platform Session Drug Transport Biotransformation & Drug Development James R. Gillette Best Manuscript Winners D.S. Riddick, L.S. Kaminsky 9:30 AM-12:00 PM Room 307	DDDRA Division Programming Innovative Drug Delivery Strategies: Knocking on the Door of Drug Development T.C. Stover 3:00-5:30 PM Room 301	SIP (CVP, DDDRA, EDU) Beginner's Guide to Emerging Technologies in Drug Development S. Sengupta 9:30 AM-12:00 PM Room 303	Neuropharmacology Division Programming Neuroproteomics of the Synapse and Drug Addiction L.A. Devi 3:00-5:30 PM Room 309	DDRA (CPTM) Monoclonal Antibody & Small Molecule Cancer Therapies – What's the Difference? J. Winkler, L.S. Friedman 8:30-11:00 AM Room 309

Saturday March 31	Sunday AM April 2	Sunday PM April 2	Monday AM April 3	Monday PM April 3	Tuesday AM April 4	Tuesday PM April 4	Wednesday AM April 5
Bridges to Success in Academia: From Undergraduate Student to Professor and Beyond G.E. Torres, 3:15-5:30 PM Room 307	EDU Best Practices in Pharmacology Education J.E. Warnick 9:30 AM-12:00 PM Room 302	Beyond Listening: A Workshop on Strategies that Actively Engage Students in the Classroom W. Jeffries, R.F. Orzechowski 3:00-5:30 PM Room 200/212	Pharmacology Education Division Programming Distance Education in Pharmacology: Promises and Pitfalls P.K. Rangachari 9:30 AM-12:00 PM Room 301	Drug Metabolism Division Programming Metabolomic/Metabonomic Probes of Drug Metabolism Consequences L.S. Kaminsky 3:00-5:30 PM Room 307		DDDR (CPTM, SIP, EDU) Getting Started in Drug Development: Academics to Industry B.R. Yerxa 3:00-5:30 PM Room 307	ASIP/ASPET Minisymposium Pathobiology of Liver Regeneration & Xenobiotic Metabolism G. Darlington H. Mehendale 8:30-11:30 AM Room 2001
ASPET Business Meeting 6:00-7:00 PM Moscone West Room 2002	CVP (CPTM, MP, SIP) Embryonic Stem Cell Therapy: From Cardiogenesis to Heart Repair A. Terzic 9:30 AM-12:00 PM Room 305			Systems & Integrated Pharmacology Division Programming Pharmacology of Cytokines in the Cardiovascular System R.C. Webb, M.W. Brands 3:00-5:30 PM Room 305		Molecular Pharmacology Division Programming Postdoctoral Award Finalists B. Kobilka 3:00-5:30 PM Moscone West Room 2008	
Awards Ceremony & Opening Reception 7:00-9:00 PM Moscone West Room 2002	ASPET/AAA Workshop Beyond Academia: Career Options in Industry & Biotech 10:00 AM-12:00 PM Room 123			Cardiovascular Pharmacology Division Programming Graduate Student and Postdoctoral Scientist Best Abstract Competition W.M. Armstead, J. Shen 3:00-5:30 PM Moscone West Room 2008			

Posters displayed 7:30 AM – 4:00 PM, Sunday – Tuesday (Late-Breaking Posters on Wednesday)
Authors Must be Present by their Boards 12:30-2:45 PM

Sunday Posters

Anxiety & Anxiolysis
Depression & Stress
Opioid Dependence
Antinociception
Neurotransmission
Neurotransmitter Receptors
GPCR Signaling I
GPCR Signaling II
Alpha Adrenergic Receptors
RGS Proteins
Hormone & Hormone Receptors
DMD: Gene Expression & Regulation
DMD: Phase I
DMD: Phase II
Clinical Pharmacology & Toxicology
CV Pharmacology: Remodeling

Monday Posters

Monoamines and Behavior
Cognition, Attention & Neurogenesis
Drug Discrimination & Behavioral Methods
Cannabinoids
Neuropharmacology I
Neuropharmacology II
Signal Transduction I
Signal Transduction II
Smooth Muscle Pharmacology & Toxicology
Vascular Pharmacology: General
Endothelium
Pulmonary Pharmacology & Toxicology

Tuesday Posters

Neurotoxicology & Neuroprotection
Neurodegeneration
Systems Pharmacology & Toxicology
Renal Pharmacology & Toxicology
DMD: Pharmacokinetics/Toxicokinetics
DMD: Reactive Metabolite & Toxicity
DMD: Transporters
Hypertension: Blood Pressure Regulation
Vascular Pharmacology: Coronary
Cardiovascular Pharmacology: Ion Channels
Second Messenger Systems
Allosteric Modulation of GPCRs
Kinases & Phosphatases
Mammalian NO Metabolism & Signaling
Immunopharmacology
Chemotherapy
Natural Products



ASPET Journals and Open Access

At the Society for Neuroscience Meeting in November, I had the opportunity to talk with meeting attendees at the Society's booth on Publishers' Row. We were located next to BioMed Central, a publisher of many online author-pays open-access journals. From a few of the discussions I had, I realized that I need to do a better job of publicizing the fact that ASPET's primary research journals are open access. This was explained in the June issue of *The Pharmacologist*, but it bears repeating.

All manuscripts accepted for publication since July 2005 for *JPET*, *Molecular Pharmacology*, and *Drug Metabolism and Disposition* are freely accessible online. These "Fast Forward" online-ahead-of-print articles remain free after they are copyedited and formatted. The formatted version becomes free 12 months after publication in an issue, but the manuscript version is free immediately upon publication. This includes all articles—not just those funded by the NIH—so ASPET's policy provides access exceeding that of the NIH.

There are many variations on "open access" (OA), but the primary tenet of OA is that a work be freely accessible immediately upon publication. That is exactly what ASPET is doing for its primary research articles.

We revised our copyright forms to allow authors to deposit NIH-funded research articles with PubMed Central. I encourage authors to do this. ASPET asks only that authors set the release date for their articles at 12 months. The NIH system will automatically calculate the actual calendar release date. It is based on publication data sent from the Society's journals to PubMed. Authors just have to set the time interval.

Although the NIH's Enhanced Public Access Policy is voluntary, the low participation rate to date is fueling calls for mandatory deposits with short or immediate release of content.

Why does ASPET ask for a 12-month release period at the NIH's PubMed Central when articles are immediately available at the journal Web sites? It's all about hits. Librarians demand, and get, detailed usage statistics for the journals to which they subscribe. If ASPET journal content is accessed at places other than the journal, hits go down, and there is less reason to maintain (or start) a subscription.

Hits are also important to advertisers. Advertising income helps support ASPET's publishing program. It isn't a great deal of income currently, but it is more than the Society's journals can afford to lose, and we are working to make it grow. Hits diverted to journal content at PubMed Central or anywhere else decrease our ability to attract and keep advertisers.

Publishing your research in *JPET*, *Molecular Pharmacology*, or *Drug Metabolism and Disposition* is publishing in an open-access journal. Your research is freely available to all immediately and remains freely available.

Don't Cheat Yourself Out of Citations

To format an announcement we recently prepared for publication, I went online to find an example from an earlier issue of the journal. The abstract and the full-text HTML versions of articles include a list of citations to it from other HighWire-hosted journals. I was surprised to find that the announcement I found was cited six or seven times. Why would anyone cite an announcement about editorial board changes?

Some digging explained what had happened. The citations to the announcement had the correct journal title, volume number, and starting page number. The algorithm that creates links between an article and citations to it uses these three data points. Unfortunately, the authors and article titles in the citations were completely different. No one intended to cite the announcement.

The announcement I found appears on page 1 of the issue. It also happens that all page proofs sent to authors start on page 1. An article's starting page number usually cannot be determined at the time that proofs are sent. All of the citations to the announcement



were actually to other articles in the same issue. It appears that some authors shared their page proofs with colleagues, who then cited the volume and page numbers from the proofs.

This is a good news/bad news story. The good news is that the erroneous citations will be included in the impact factor calculations for the journal. Only the three data points mentioned above are used when verifying journal citations. As long as the journal title, volume number, and starting page number match the meta data supplied to the *Science Citation Index* and other indices, the journal gets credit for the citation.

The bad news is that the authors who were supposed to be cited will not get credit. Author citations are more rigorous than journal citations. Because the starting page numbers supplied in the citations did not match those of the articles cited, the citations were probably not counted toward the authors' impact factors.

The copy editors working on ASPET's journals now check the accuracy of all page 1 citations. How thoroughly other journals check their references varies. Much of this work is now automated. HighWire Press tested their linking algorithm by including author names and article titles, but they found too many legitimate differences that ruled out matches. For instance, some reference styles do not include article titles, and some do not list all authors. Authors present accented and special characters in inconsistent ways that prevent matches. The journal title, volume number, and starting page number have proven to be the most consistent and reliable meta data for linking and citation accuracy.

We ask authors not to share their page proofs. There are several reasons for that, and this is the newest. Direct your colleagues to the published version of your article so they can correctly cite your work.

Archival Issues Now Online

The back-issue scanning project is completed for *Drug Metabolism and Disposition* and *Molecular Pharmacology*. All issues of these journals going back to volume 1, issue 1, are available online as PDF files. *DMD* began publication in 1973, and *Molecular Pharmacology* was launched in 1965.

Online posting of the *DMD* issues was completed on July 29. *Molecular Pharmacology* was finished on September 7. Availability of the back issues was publicized through email messages to ASPET members, to those registered to receive announcements from the journals, and to email lists serving librarians. Announcements on each journal's homepage alerted readers. Advertisements have been running in the print versions of the journals as well.

Users of the online version of *Pharmacological Reviews* may have noticed that its back issues are online. However, a careful quality assurance check by ASPET staff discovered a number of misidentified issues, broken links, and other glitches. HighWire Press is working to fix these problems, and the back issues will be publicized fully when they are corrected.

Scanning of *JPET*'s back issues has been completed, and the articles are being prepared for online posting. As the oldest ASPET journal, it has required the most work. We were fortunate to find every issue back to 1909. The pages of the early volumes were quite brittle and required special handling, as did the foldout pages used in earlier years.

For each journal, all back issues were "de-spined" so the pages would be flat for scanning. The scanning process created one enormous PDF file for each journal. The PDF files were then broken down to the article level. Each article's title, authors, volume, issue, page numbers, and abstract were pulled from PubMed when available there and were rekeyed otherwise. PubMed began in 1965. Bibliographic information from its earlier years is spotty, so a significant amount of rekeying is needed, particularly for *JPET* and *Pharmacological Reviews*.

The early issues of these journals include items in addition to research articles and reviews. There are meeting abstracts, book reviews, obituaries, reports, and various announcements. All are being preserved, but they present some coding difficulties in a process that is highly automated and standardized. The project also preserves electronically the original mastheads, tables of contents, and advertising that were published in each issue. This is critical to librarians for the online version to serve as a true archive.

Watch your email and the *Pharmacological Reviews* and *JPET* Web sites for the completed posting of these journals' back issues. We eagerly await the online availability of these tremendous Society assets.



NIH Funding

Last month the House rejected the conference report to the previously passed Labor/HHS bill that funds NIH and other public health agencies. It has been ten years since a conference report was not passed on House and Senate approved bills. The report had a \$253 million increase (0.7%) above the FY'05 level for the NIH. This was significantly lower than the Senate approved bill (3.7%) and only \$100 million more than the House bill (and President's request). The conferenced number allocated for the NIH comes as no great surprise as it was expected the number would be closer to the House than the Senate.

If some resolution is not found, the NIH could face the prospect of a year long continuing resolution (CR) at FY'05 funding levels for the remainder of FY'06. A second CR is currently funding programs and was due to expire on December 17. Alternative solutions such as passing the existing bill as a stand alone bill or attaching it to the Department of Defense appropriations bill present their own problems that make any passage difficult to impossible. Also looming in any final resolution is the potential of across the board spending cuts. As a result of this uncertainty, the NIH recently announced that existing NIH grantees will be receiving payments as much as 20% below their award notice. NIH will consider making upward adjustments should a final FY'06 appropriations bill be enacted. However this situation ultimately gets resolved, the best-case scenario for the NIH in FY'06 remains "not good," and the worst case looks pretty bad. At press time, Conferees were once again trying to hammer out some agreement.

ASPET-Merck Postdoctoral Fellowships in Integrative Pharmacology

The ASPET-Merck Postdoctoral Fellowship in Integrative Pharmacology will renew the competition in Cancer Pharmacology. Fellowship term is three years with no less than six months of the Fellowship to be spent at the Merck Research Laboratories in Boston, MA. For eligibility guidelines, research areas of interest, and application information view: http://www.aspet.org/public/merck_fellowships/guidelines.html. Application deadline is **August 31, 2006**.

EB'06 Workshop for Summer Short Courses in Integrative and Organ Systems Science

At the 2006 Experimental Biology meeting in San Francisco, ASPET's Public Affairs Committee will sponsor a workshop on Monday, April 3, 2006, to provide information on the National Institute of General Medical Sciences four short summer courses that will provide specialized training for using intact organ system and in vivo animal models in the conduct of research. The workshop will be held at the Moscone Convention Center from 12:30 pm - 2:00 pm. The purpose of each short course is to introduce graduate students and Ph.Ds to the knowledge and skills needed for integrative studies of organ systems and intact animals and to the physiological and biochemical responses of these systems to drugs. These critical skills are in short supply. Graduate students and Ph.Ds. with these skills are in great demand in both academic and industrial settings. Attendees at this workshop will hear about the summer courses from the course directors and from students who participated this past summer. For background on last year's summer short courses visit http://www.aspet.org/public/public_affairs/pa_NIGMS_shortcourse_awards.html

Evolution vs. Intelligent Design

FASEB's Office of Public Affairs has added a web page featuring evolution resources, including tools for teaching evolution to K-12, statements made by scientific societies regarding evolution, and other resources of interest to scientists. The page can be found at <http://www.faseb.org/opa/ppp/evolution.html>.

Funding Opportunities

Prescription Opioid Use and Abuse in the Treatment of Pain
<http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-06-005.html>

The National Institute on Drug Abuse (NIDA) would like to inform the drug abuse and addiction research community about four recently announced NIH Roadmap funding opportunities. Further descriptions of these grant opportunities and the recently convened NIDA Roadmap Symposium titled "The NIH Roadmap: Inviting Drug Abuse and Addiction Researchers to Contribute to the Clinical Research Enterprise" Meeting Summary and Videocast are available at <http://www.nida.nih.gov/about/roadmap/index.html>.

Competing Renewal Awards of SBIR Phase II Grants for Pharmacologic Agents and Drugs for Mental Disorders <http://grants.nih.gov/grants/guide/pa-files/PA-06-079.html>



Division for Clinical Pharmacology & Translational Medicine

ASPET's Division for Clinical Pharmacology has added a new dimension to its title. At its October meeting, ASPET Council approved changing the name of the Division to the Division for Clinical Pharmacology and Translational Medicine to better reflect the type of research of its members and to attempt to attract new members who might not have thought of themselves as clinical pharmacologists. But WAIT! At the recent Program Committee meeting, there was general agreement that these terms also encompassed the increasingly important area of Pharmacogenomics, and a recommendation was made to modify the name to the Division for Clinical Pharmacology, Pharmacogenomics and Translational Medicine to call attention to this very important area of pharmacology. ASPET Council will be considering this change on its next conference call.

Division for Drug Metabolism

Requests for Proposals for Division-sponsored Symposia at Experimental Biology 2007

The Division for Drug Metabolism seeks proposals for Division-sponsored symposia at Experimental Biology 2007, April 28-May 2, 2007, Washington, DC. Please submit your preliminary ideas and plans to Dr. Laurence Kaminsky (kaminsky@wadsworth.org). Guidelines and an on-line submission form are available on the Division for Drug Metabolism web site: <http://www.aspet.org/public/divisions/drugmetab/meetings.htm>.

The final deadline for submission of full symposium proposals is February 15, 2006.

James R. Gillette Best Paper Award Winners Announced

Pharmacokinetics/Transporters Category

NEUROPHARMACOKINETICS OF A NEW A-AMINO-E-HYDROXY-5-METHYL-4-ISOXAZOLE PROPRIONIC ACID (AMPA) MODULATOR, S18986 [(S)-2,3-DIHYDRO-[3,4]CYCLOPENTANO-1,2,4-VENZOTHIADIAZINE-1,1-DIOXIDE], IN THE RAT

Fanchon Bourasset, Katy Bernard, Carmen Muñoz, Patric Benissel, and Jean-Michel Scherrmann

Institut National de la Santé et de la Recherche Médicale (INSERM) U 705, UMR Centre National de la Recherche Scientifique (CNRS), 7157, Université Paris 7, Université Paris 4, Hôpital Fernand Widal, Paris, France; and Institut de Recherches Internationales Servier (IRIS), Courbevoie, France

Drug Metabolism and Disposition 33: 1137-1143 (2005).

Drug Metabolism Category

A SIMPLE SEQUENTIAL INCUBATION METHOD FOR DECONVOLUTING THE COMPLICATED SEQUENTIAL METABOLISM OF CAPRAVIRINE IN HUMANS

Hai-Zhi Bu, Ping Kang, Ping Zhao, William F. Pool and Ellen Y. Wu

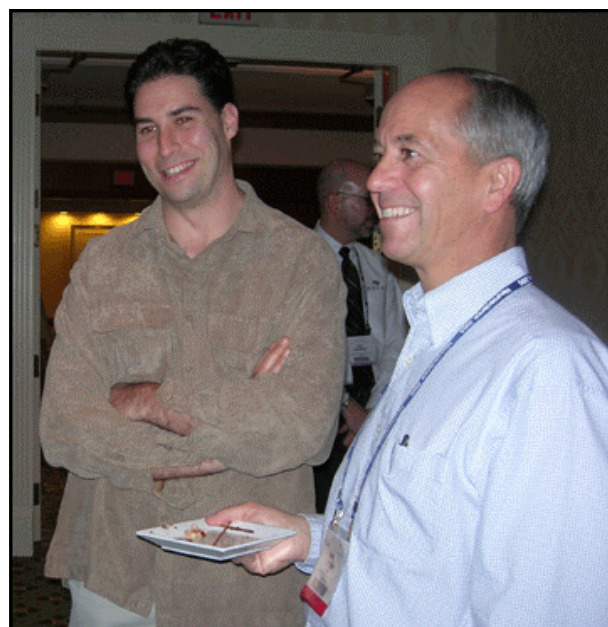
Department of Pharmacokinetics, Dynamics & Metabolism, Pfizer Global Research and Development, San Diego, CA

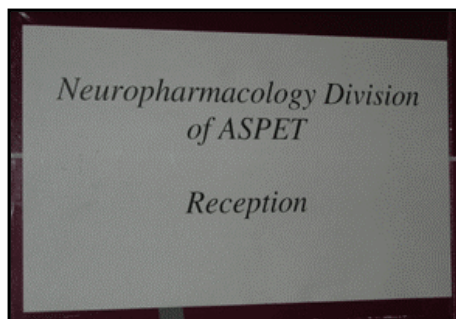
Drug Metabolism and Disposition 33: 1438-1445 (2005).



Division for Neuropharmacology

The Division of Neuropharmacology hosted a social/mixer during the Society for Neuroscience meeting in November, 2005. This was a purely social occasion and was attended by about 250 people. Food and drink were provided and, as can be seen in the accompanying pictures, a good time was had by all!





**Susan G. Amara, Ph.D., to receive the Axelrod Medal for 2006
from the Catecholamine Club**



Dr. Susan Amara received her B.S. in Biological Sciences from Stanford University in 1976 and her Ph.D. in Physiology and Pharmacology from the University of California, San Diego in 1983. Her doctoral work with Michael G. Rosenfeld established alternative RNA processing as a mechanism for regulating gene expression in the nervous system and identified a novel neuropeptide, CGRP, encoded within the gene for the peptide hormone, calcitonin. In 1985, she joined the Section of Molecular Neurobiology at the Yale University School of Medicine as an Assistant Professor, and in 1986 she was appointed as an Assistant Investigator in the Howard Hughes Medical Institute. At Yale she and her colleagues worked to isolate the genes encoding the norepinephrine transporter, a primary site of action for therapeutic antidepressants and psychostimulants, and the dopamine transporter, the molecular target associated with the addictive and euphoric properties of cocaine and amphetamines. Dr. Amara moved to the Vollum Institute at Oregon Health Sciences University as an Associate Professor in 1991 and was appointed Professor

and Senior Scientist in 1996. She became an Associate Investigator in the Howard Hughes Medical Institute in 1994 and was promoted to Investigator in 1999.

In the fall of 2003, Dr. Amara left the Vollum and the Howard Hughes Medical Institute to become the Thomas Detre Professor and Chair of the Department of Neurobiology and Co-director of the Center for Neuroscience at the University of Pittsburgh. Work in her laboratory has examined the impact of psychostimulant and antidepressant drugs on the signaling properties, physiology and acute regulation of biogenic amine transporters. Her group has also addressed the structure, function and physiology of glutamate transporters. This work has demonstrated that such proteins can serve dual functions as transporters and as substrate-gated ion channels, revealing additional mechanisms by which carriers regulate neuronal excitability. Dr. Amara is a recipient of the George Herbert Hitchings Award for innovative methods in drug discovery from the Burroughs Wellcome Fund, the Young Investigator Award from the Society for Neuroscience, the John Jacob Abel Young Investigator Award from the American Society of Pharmacology and Experimental Therapeutics, a McKnight Neuroscience Investigator Award and a MERIT Award from the National Institute on Drug Abuse. She is a member of the Dana Alliance for Brain Initiatives and of the American College of Neuropsychopharmacology. She has served as a member of the National Advisory Council for the National Institute on Drug Abuse, and as a Councilor and a Treasurer of the Society for Neuroscience. She was elected to the National Academy of Sciences in 2004. She currently serves on editorial boards of several journals including *Annual Reviews of Pharmacology and Toxicology*, *Trends in Pharmacological Sciences*, and the *Proceedings of the National Academy of Sciences*. She is also a member of the Board of Scientific Counselors for the intramural program at the National Institute on Drug Abuse.

The Axelrod Medal has been given annually since 1991 by the Catecholamine Club to honor Nobel Laureate Julius Axelrod, a founding member of the Catecholamine Club. Previous winners have included Ullrich Trendelenberg, Arvid Carlsson, Norman Weiner, Robert Furchgott, Irvin Kopin, Sidney Spector, Solomon Snyder, Erminio Costa, Toshi Nagatsu, Salomon Langer, Richard Weinshilboum, Richard Palmiter and Marc Caron.





FOUNDATION for
CATECHOLAMINE
RESEARCH

Catecholamine Club Dinner 2006

- When:** **April 4th - Tuesday evening - 7:00 pm**
Held in conjunction with Experimental Biology 2006
(www.faseb.org/meetings/eb2006).
- Where:** **The Mandarin at Ghirardelli Square**
900 North Point St., San Francisco.
- Featuring:** **Presentation of the Julius Axelrod Medal for 2006 to Susan G. Amara PhD**
The medalist will provide a dinner talk. This will be followed by live music and entertainment.
- Cost:** **\$50.00 per person**
Note: Cost of the dinner — subsidized by the Foundation for Catecholamine Research — is capped at \$50.00 per person for the first 40 members and guests who register. Cost of the dinner is otherwise \$75.00.
- To register:** **Registration deadline is March 20th 2006**
Early registration will guarantee the reduced cost. Make check payable to the "Foundation for Catecholamine Research/CFNCR" and mail to Dr. Esther L. Sabban, Department of Biochemistry and Molecular Biology, New York Medical College, Valhalla, New York 10595. If you reside overseas or are otherwise unable to send a check, please contact Dr. Sabban to arrange alternative payment - email: sabban@nymc.edu.



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themandarin@sbcglobal.net



CONTRIBUTORS FOR 2005

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IN SYMPATHY

ASPET notes with sympathy the passing of the following members:

David A. Brodie

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Arthur A. Hancock, Ph.D.
1946-2005

With deep sorrow we report that our dear colleague, mentor, and friend, Dr. Arthur Allan Hancock, passed away November 11, 2005, in Westmoreland Nursing Home at Lake Forest Hospital, surrounded by his loving wife and family. He battled kidney cancer with grace, faith, and good humor for four months before succumbing to this recently diagnosed illness. Dr. Hancock was born in St. Louis, and grew up in Easton, Pennsylvania. He is survived by his beloved wife Kathryn of Libertyville, IL; two sons, David M. Hancock of Grayslake, IL and Chad M. Hancock of Waukegan, IL; a stepson, Jeffrey B. Svehla of Evanston, IL; and his sister, Christine (Steve) Fisher of Bethlehem, Pa. He was loved and will be remembered by a number of in-laws, nieces and nephews as well. He was preceded in death by his brother, Dr. Kenneth Hancock of Rockville, Md., as well as his mother, Audrey Hancock (nee Buddensick) and father, Kenneth R. Hancock, both of Bethlehem. His funeral service was held at the First Presbyterian Church in Libertyville, on November 19, 2005.

Dr. Hancock graduated with two degrees from Penn State University in 1968 and worked as a pharmacologist at Norwich Pharmacal Company from 1968-1970. He then completed his doctoral work (Myocardial contractile force: The role of verapamil-induced changes in transmembrane calcium flux and cyclic nucleotides) in 1977 at the University of Pennsylvania's Department of Pharmacology, School of Medicine under the tutelage of Dr. Marilyn E. Hess. Upon completion of his doctoral work, Art proceeded to the laboratory of Dr. Robert J. Lefkowitz at the Duke University Medical Center to conduct post-doctoral research in receptor pharmacology. His work during that time resulted in the publication of three now classic papers in *Molecular Pharmacology* on the development of the first computer assisted methods for detailed analysis of receptor subtypes. The methods he developed while working in the laboratory of Dr. Lefkowitz quickly became the standard in the field and are used throughout the world today for the detailed analysis of ligand binding experiments.

Following completion of his fellowship at Duke in 1979, Art accepted the position of senior research pharmacologist at Merrell Dow Research Institute in Cincinnati, Ohio, where he was involved in cardiovascular and neuroscience research. He came to Abbott Laboratories in 1985 and rose to the position of senior project leader and Research Fellow in the prestigious Volwiler Society. Due to his battle with cancer, he retired from Abbott on Sept. 30, 2005. Dr. Hancock's intellect, passion, vision and leadership were critical to the discovery of numerous clinical candidates across a spectrum of disease states including depression, BPH, cognitive disorders and pain. During his tenure at Abbott, Art used his considerable pharmacological knowledge to diligently work with his colleagues to correlate pathophysiological findings to molecular targets and shepherd the development of selective new chemical entities into clinical candidates and important pharmacological tools. His research efforts contributed to the greater understanding of the contributory role of α_1 -adrenergic subtypes to benign prostatic hypertrophy and the development of $\alpha_{1A/D}$ -adrenergic receptor antagonist fiduxosin. More recently, he had considerable impact in the histamine H_3 receptor field, leading the research effort at Abbott in demonstrating the preclinical utility of H_3 antagonists to treat cognitive disorders and obesity, culminating in the development of a number of novel H_3 receptor antagonists including ABT-239. Art was a true drug hunter who was passionate about drug research and considered himself fortunate to be able to work at something he truly loved.

Art combined his scientific expertise with the ability to lead and mentor scientists from multiple disciplines. He was internationally recognized and served on the editorial board for numerous journals, including *Biochemical Pharmacology*, the *Journal of Pharmacology and Experimental Therapeutics* and others. He was the author or co-author of over 85 scientific articles and book chapters. Art was an active and involved member of the Society for Neuroscience, the European Histamine Research Society, and the American Society for Pharmacology and Experimental Therapeutics (ASPET). Memorializing the passion Dr. Hancock felt for encouraging and mentoring young people in the field, Abbott Laboratories sponsored what is now called the Arthur A. Hancock Young Investigator Award given out by the European Histamine Research Society.

Art was a great colleague and friend to many inside and outside of Abbott; his calm demeanor, thoughtful analysis, willingness to listen to multiple viewpoints and desire to help anyone in need made him a person who was sought for advice and insight on many occasions. He possessed a wonderful sense of humor that was often incorporated into witty prose he presented to colleagues celebrating significant events in their careers. As Art fought his battle with cancer, he maintained these qualities and continued to have a deep concern for all of his colleagues past and present. He encouraged his colleagues to continue the search for better medicines for pain and cancer, and he retained his great sense of humor.



Dr. Hancock found solace and pleasure in music and participated in the First Presbyterian Church of Libertyville's Chancel Choir. This circle of friends in faith was where he found immense joy. He played various percussion instruments including the hammer dulcimer and marimba. Among his other interests were theater, travel and bicycling. He was a man of deep integrity, quiet courage, keen intellect, ready wit and abiding faith in God.

Both Abbott Laboratories and the larger communities of pharmacology and neuroscience have sustained a significant loss with his untimely death. All will miss his wise counsel, mentoring, character, wit, and grace. Art was an esteemed colleague, valued mentor, and most especially a dear friend who will be missed greatly.

Contributions in Dr. Hancock's memory can be made to American Cancer Society or the Music Program of the First Presbyterian Church, 219 W. Maple Ave, Libertyville, IL 60048.

Prepared by Tim Esbenshade, Gerry Fox, Kathleen Krueger, Robert Lefkowitz, Mike Meyer, and Jim Sullivan

Advances in H₃ Receptor Research: Implications for Novel Therapeutics A Symposium in Memory of Arthur Hancock

Saturday, April 1
2:00 pm – 5:30 pm
San Francisco Marriott
Golden Gate A1/A2
San Francisco, CA
(In conjunction with EB '06)

Despite two decades of pharmacological research on histamine H₃ receptor antagonists, no compound from this class is currently in advanced clinical trials. To date, no clinical proof-of-concept data exist for the proposed therapeutic utilities of H₃ receptor antagonists that include: Alzheimer's disease, attention deficit hyperactivity disorder, schizophrenia and other dementias; metabolic diseases such as obesity and; sleep/wake disorders including narcolepsy. However, recent advances in biology and chemistry in industry and academia have resulted in major advances towards this elusive goal. This symposium will highlight advances, including presentations of recent findings on H₃ receptor oligomerization, function, and physiological activity as well as the development of novel H₃ antagonists and the potential therapeutic indications of the compounds by leading H₃ receptor experts. The H₃ research area was one in which the late Art Hancock made major contributions building on his extensive experience in the area of GPCRs.

Tentative topics include:

- Advances in GPCR Research: Implications on Drug Therapy
- Recent Advances in H₃ Receptor Molecular Pharmacology: Isoforms, Oligomerization and Signaling
- Advances in H₃ Receptor Biology: Utility of H₃ Knockout Mice in Drug Discovery
- Development of H₃ Antagonists for CNS Disorders
- Therapeutic Applications of H₃ Antagonists
- Alternate Correlation of H₃ Antagonist Effects on Behavioral and Neurochemical Measures: Implications for Therapeutic Utility



New England Pharmacology Society Announces Its 2006 Annual Meeting

The 35th Annual Meeting of New England Pharmacologists (NEP 2006), a regional chapter of ASPET, will be held on February 10 and 11, 2006, in the elegant Eden Vale Grand Ballroom at the Westin Hotel in Waltham, MA. The Department of Pharmacology and Experimental Therapeutics at Boston University School of Medicine (David H. Farb, Ph.D., Chair, and Carol T. Walsh, Ph.D., organizers) is pleased to host this meeting. Participation by trainees and professionals in academia and the pharmaceutical industry of New England is strongly encouraged. There will be an emphasis on providing opportunities for graduate students, post-doctoral fellows, and undergraduates to present their research and interact informally with thought leaders from the academic, governmental, and industrial sectors of pharmacology. In addition to oral and poster presentations, the meeting will feature keynote presentations by scientific leaders from academia and industry. Confirmed speakers include Susan L. Lindquist, Ph.D., Professor of Biology, Whitehead Institute, MIT; Frank S. Walsh, Ph.D., Executive Vice President, Discovery Research Worldwide, Wyeth Research; and Lex H.T. Van der Ploeg, Ph.D., Vice President, Basic Research, Merck Research Laboratories, Boston, MA.

An award for research excellence will be presented to one graduate student from each participating academic institution. The abstract submission deadline is **January 6, 2006**, and the registration deadline is **January 27, 2006**. A discounted rate (\$99 per room) for attendees is available but reservations for the Westin Hotel in Waltham, MA (800-937-8461) must be confirmed by 20 January 2006. For further information contact Sara Johnson at 617-638-4302 or pharm3@bu.edu. Online information and registration is available at <http://lmnsrv.bumc.bu.edu/NEPS/>

ASPET Staff again this year decorated the display case in the corridor outside the ASPET and Biophysical Society offices.

We join our penguin friends in wishing everyone a

**Happy
Holiday
Season**





Photo Courtesy of www.Beijingpage.com

15TH World Congress of Pharmacology

Beijing, China
July 2-7, 2006

www.iuphar2006.org

ASPET will be making travel awards for graduate students and young scientists to attend this unique international meeting.

Application forms will be available online in November at:

www.aspet.org/public/awards/awards_fellowships.html

Applicants must be ASPET members and must be the presenting author of an abstract submitted to IUPHAR 2006.

Abstract deadline: January 31, 2006



Guilin



Terra cotta
soldiers at Xi'an

Photos courtesy
of Philip Arkin



15th World Congress of Pharmacology Scientific Program

Plenary Lectures

Retinoid Pharmacology: Cell Growth, Differentiation and Cancer, Lorraine Gudas (USA)
 Endothelial Dysfunction and Vascular Disease, Paul M. Vanhoutte (USA)
 Annexin 1, Glucocorticoids and the Neuroendocrine-Immune Interface, Julia Buckingham (UK)
 Serotonin 5-HT₂ Receptors: Molecular and Genomic Diversity, Elaine Sanders-Bush (USA)
 Muscle-Derived Cytokines: Pharmacological Implications, Bente Klarlund Pedersen (Denmark)
 Discovery of Ghrelin: Its Structure and Physiological Significance, Kenji Kangawa (Japan)
 Pharmacogenomics: Basic and Clinical Research, Richard M. Weinshilboum (USA)
 Ca²⁺ Sensitizers: Characteristics, Classification and Potential Clinical Relevance, Masao Endoh (Japan)
 Modulation of Cytochrome P450 Activity by Reactive Species, Patrick du Souich (Canada)
 Why Pharmacology Teaching and Research are Inextricably Linked, Bevyn Jarrott (Australia)
 Targeting Adenosine Receptors, Bertil Fredholm (Sweden)
 Regulation of Hypoxia Inducible Factor, Cell Respiration and NO, Salvador Moncada (UK)
 Prostanoid Receptors: From Physiology, Molecular Biology to Translations Research, Shuh Narumiya (Japan)
 Discovery and Molecular Analysis of Aquaporin Water Channels, Agre Peter (USA)
 Myoblast-Mediated Gene Transfer for Therapeutic Angiogenesis, Helen Blau (USA)
 A New Class of Peripheral Analgesics: Stimulators of the NNO-cGMP-PKG-ATP K⁺ Channel, Sergio Henriqu Ferreira (Brazil)
 Adrenoceptor Trafficking in a Living Cell, Qi-de Han (China)
 Understanding Drug Glucuronidation: New Insights on an Old Enzyme, John Miners (Australia)
 Ethnicity, Genetics and Tailored Pharmacology, Hong-hao Zhou (China)
 Angiogenesis: From Plants to Blood Vessels, Tai-ping Fan (UK)
 Modular Assembly of G Protein Protein-Coupled Receptor Signalosomes, Michel Bouvier (Canada)
 The IUPHAR Lecture in Analytical Pharmacology – From Systems to Target to Systems: Can we Keep Caprice Out of Pharmacological Numbers, Terry Kenakin (USA)
 British Pharmacological Society Lecture – Prostaglandins, Glucocorticoids, Annexin A1 and Inflammation
 Danish Lecture: The Pharmacology of Hypertension: What Now?

Symposia

Cellular Targets for Cancer Therapy
 Protein Kinase Signaling in the Heart
 Transporters and Adverse Effects of Drugs
 Better Medicines for Children
 Disease-Modifying Therapies in Alzheimer's Disease: From Experimental Targets to Clinical Applications
 Advances in Analgesic Drug Targets: Beyond Opioids and NSAIDS
 Drug Treatment for AIDS and AIDS Associated Diseases
 New Information on Classical 5-HT Receptors
 Antibody-Based Therapies and Diagnostics
 Frontiers in G Protein-Coupled Receptor Research
 Torsades de Pointes Arrhythmias: Etiology, Detection and Benefit vs Risk Associated with Potential Cardiotoxic Drugs
 Antimalarial Drugs: From the Bench to the Field
 Inflammatory Sensitization
 Pharmacological Treatment of Pulmonary Hypertension
 Gene and Cell-Based Therapies for Cardiovascular Disease
 Addiction



Pharmacology of Natural Products
 Presynaptic Receptors: the third Decade and Future Perspectives
 Integrating Tradition and Technology-Effective Teaching of Pharmacology
 Pharmacology of Sarcoplasmic Reticulum in Smooth Muscle
 Receptor Closure: New Frontiers for Functions Definitions
 Metalloproteinases as Therapeutic Targets for Cancer Therapy
 Na⁺/Ca²⁺ Exchangers: Molecular Pharmacology and Therapeutic Perspectives
 Pharmacology of Gaseous Mediators
 Novel Aspects of Cytochrome P450
 Role of the Endocannabinoid System
 Targeting Signaling Pathways for Therapeutic Interventions
 Aquaporin Water Channels and New Drug Discovery
 Modern Molecular GI Pharmacology: From Gene Expression to Therapy
 Neuropathic Pain: Mechanism and Control
 Pharmacology of Traditional Medicines
 Eicosanoid Receptors in Vascular Disease: Targets for Drug Development
 The Status of Educational Programs in Drug Development and Regulatory Science
 Pharmacology of Nitric Oxide Synthase (NOS)
 Acid-Related Disease and Mucoprotective Agents: Studies from Cells to Patients (parts 1 and 2)
 Metabolic Modulation in Cardiac Myocytes as a Pharmacological Approach to Treat Cardiac Ischemia and Heart Failure
 Role of Oxidative Stress in the Regulation of Drug Metabolizing Enzymes
 Poly (ADP-ribosyl)ation: A Key Process for Pharmacological Intervention
 New Perspectives for the Treatment of Airway Inflammation
 Potential Drug Targets in the Renal Microcirculation
 Purinergic Signaling
 Possible Roles for Muscarinic Receptors in the Pathology of Schizophrenia and other CNS Disorders
 Evolving Perspectives in the Pharmacology of Osteoporosis
 Vascular Complications of Diabetes: Is Targeting the Endothelium a Viable Option for New Treatments?
 Juxtaglomerular Cell Pharmacology
 Pharmacology and Physiology of Pacemaker Channels
 Neuronal Plasticity under Insult: From Transcription to Function
 Prostaglandins in the Kidney
 Pharmacogenetics in Cancer Therapy
 Intercellular Cross-Talk in Blood Vessels: From Bench to Bedside
 Chronotherapy: A New Means of Optimizing Therapeutic Outcomes and Safety
 Molecular, Cellular and Clinical Pharmacology of Selective Serotonin Reuptake Inhibitors (SSRIs)
 PPAR Agonists for the Treatment of Diabetes
 EPHAR Mini-Symposium – Janus-Faced Enzymes: Generation of Reactive Oxygen Species by NO Synthases

Workshops

E-Pharmacology: Using Technology to Enhance Teaching and Learning in Pharmacology
 Standardization and Quality-Control of Natural Products and Traditional Medicines
 Target and Drug Discovery and Validation
 Computational and *in vitro* Approaches for Predicting Drug Metabolism and Pharmacokinetics in Humans
 New Advances in CNS Safety Pharmacology



Definitions of Categories of ASPET Membership

◆ **Regular Members:** Any doctoral level investigator who has conducted, and is the primary author on at least one publication of, an original study in the area of pharmacology published in a peer-reviewed journal is eligible for membership in ASPET. Exceptions may be made for someone who does not meet the degree requirement but who has made major research contributions to pharmacology. Dues for regular members are \$130/year. Regular members must be nominated by two (2) Regular or Retired ASPET members.

◆ **Affiliate Members:** An investigator who does not meet the requirements for Regular membership because of the lack of a degree or lack of publication is eligible to apply for Affiliate membership. Affiliate members receive all the same member benefits as Regular members except that they may not vote in ASPET elections. Dues for Affiliate members are \$105/year. Affiliate members must be nominated by one (1) Regular or Retired ASPET member.

◆ **Student Members:** Individuals who are enrolled in undergraduate, graduate, or professional degree programs are eligible for Student membership in ASPET. Student members receive all the same benefits as Regular Members except that they may not vote in ASPET elections. Individuals may remain in the Student Member category for up to two (2) years following completion of their research doctoral degree. Undergraduate students pay no dues. Dues for second year and above Student Members are \$30. Student members must be nominated by one (1) Regular or Affiliate ASPET member.

Sponsors should send an email or letter addressing the applicant's qualifications for ASPET membership directly to the ASPET office (rhipps@aspet.org).

Regular Member Benefits (Dues \$130):

- Reduced page charges to publish in ASPET journals – pay \$35/page instead of \$70/page and save enough with one four-page article to pay your annual ASPET dues!
- Half-price color fees to publish color figures in ASPET journals
- Free full-text access to all five online ASPET journals, including all back issues
- Free subscription to *Molecular Interventions* (print) and *The Pharmacologist* (online)
- Reduced subscription rates for ASPET print journals
- Reduced registration fees for ASPET meetings
- Sponsorship of papers at the ASPET meeting
- Best abstract awards for young scientists at the ASPET meeting
- Travel awards for young scientists to the International Congress of Pharmacology in Beijing in 2006
- Free listing in the FASEB Directory and free subscription to the FASEB online newsletter
- Membership in multiple ASPET Divisions for no additional dues.

Affiliate Members (Dues \$105) have all the benefits of Regular Members except they may:

- Sponsor candidates for Student membership only.
- Not sponsor a paper for a non-member at a Society meeting.
- Not vote in Society elections.
- Not hold an elected office in the Society.

Student Members (Dues \$30) have all the benefits of Regular Members except they:

- Pay no dues their first year.
- Pay only 25% of the Regular Member dues rate thereafter. Undergraduate student members pay no dues and get their first graduate year free.
- Must have their papers at Society meetings sponsored by a member.
- May not vote in Society elections nor hold an elected office in the Society.

2006 Publication Subscription Rates for Members

All Society Members qualify for the following reduced print publication subscription rates:

- *Journal of Pharmacology and Experimental Therapeutics* (Monthly) - \$182/year
- *Pharmacological Reviews* (Quarterly) - \$77/year
- *Drug Metabolism and Disposition* (Monthly) - \$91/year
- *Molecular Pharmacology* (Monthly) - \$119/year
- *Molecular Interventions* (Bimonthly) – included with dues

Application Instructions and Suggestions

Submit the completed Application for Membership form or use the online application form on the ASPET web site at <http://www.aspet.org/membership>. Submit a current curriculum vitae including bibliography for Regular and Affiliate Membership. You may e-mail the CV.

Sponsor Statements: Submit a statement(s) of qualifications of the applicant from two Regular/Retired Members of ASPET for Regular Membership and from one Regular/Retired Member of ASPET for Affiliate Membership and Student Membership (Affiliate Members may also sponsor student applicants). In addition to statement certifying that the applicant is qualified for ASPET membership, sponsors please provide your own current address, phone, fax and email **It is the responsibility of the applicant to insure that these documents are submitted to the ASPET office.**





9650 Rockville Pike, Bethesda, MD 20814-3995 USA ♦ Phone: 301-634-7060 ♦ Fax: 301-634-7061 ♦ www.aspet.org

Application for Membership

Application for Regular, Affiliate, Graduate Student, or Undergraduate Student

Year: Fr Soph Jr Sr

APPLICANT: Please complete this section – type if possible.

Name and Address:

Telephone:

Fax:

E-mail:

Date of Birth:

Education and Training:

Date and Degree School City/State/Country Major Field

Professional Experience (Present position first) Please include dates, position, and organization.

Name, address and email of two sponsors (one sponsor for student and affiliate membership):

Indicate primary (1) and as many secondary (X) divisions to which you wish to belong:

- | | |
|--|--|
| <input type="checkbox"/> Division for Behavioral Pharmacology | <input type="checkbox"/> Division for Drug Metabolism |
| <input type="checkbox"/> Division for Cardiovascular Pharmacology | <input type="checkbox"/> Division for Molecular Pharmacology |
| <input type="checkbox"/> Division for Clinical Pharmacology & Translational Medicine | <input type="checkbox"/> Division for Neuropharmacology |
| <input type="checkbox"/> Division for Drug Discovery, Development & Regulatory Affairs | <input type="checkbox"/> Division for Pharmacology Education |
| | <input type="checkbox"/> Division for Systems & Integrative Pharmacology |
| | <input type="checkbox"/> Division for Toxicology |

Division membership is a benefit of ASPET membership and there is no additional charge to belong to a division.

Paperwork Summary

1. Application form.
2. Statement of qualification for membership in ASPET and signatures from two sponsors for Regular membership and from one sponsor for Affiliate and Student membership. A letter or e-mail should be sent by the sponsor to the Membership Coordinator (rhipps@aspnet.org).
3. *Curriculum vitae* (include bibliography) for Regular and Affiliate membership.

Call or e-mail the ASPET Membership Department for additional information: 301-634-7135 / rhipps@aspnet.org.

You may apply online at <http://www.aspet.org/public/membership/membership.html>

Future Meetings

Experimental Biology '06
San Francisco, CA
Saturday-Wednesday
April 1-5, 2006
(AAA, APS, ASIP, ASBMB,
ASNS, ASPET)

Experimental Biology '07
Washington, DC
Saturday-Wednesday
April 28-May 2, 2007
(AAA, APS, ASIP, ASBMB,
ASNS, ASPET)

🏆 ASPET's Centennial 🏆
Experimental Biology '08
San Diego, CA
Saturday-Wednesday
April 3-9, 2008