aspet The Pharmacologist
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2011
December

2012 Election Issue

In this issue:

ASPET On The Web

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The Pharmacologist

News

Features

2012 Dues Notices

Please check your mailbox and your email inbox for your 2012 Dues notice. You can mail your payment or renew online at www.aspet.org, no later than January 1, 2012.

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

2011 in Review

2011 was a year of changes for ASPET!

In April, the Board of Publications Trustees made the difficult decision to shut down *Molecular Interventions*, after 10 years of publishing this great journal. ASPET could no longer afford to publish *MI*, and it has since been archived on the CLOCKSS digital repository. But closing the doors on MI was far from the only thing going on for ASPET journals in 2011. All four of our journals are now available in a mobile version for smart phones and tablets. The mobile version has become a huge success since it was unveiled.

The journals department has also been gearing up for big changes in 2012. The new year will bring in two new editors, while ushering out print versions of all of our journals. Dr. Edward T. Morgan has been selected by the BPT to succeed Dr. Eric F. Johnson as editor of *Drug Metabolism and Disposition*, while Dr. Stephen F. Traynelis has been chosen to take over *Molecular Pharmacology* from Dr. P. Jeffrey Conn. ASPET thanks both of these gentlemen for their service to the journals and ASPET. We look forward to working with the new editors to continue to move ASPET journals forward. Another step forward is to move our journals to an online-only format in 2012.

Also in 2011, as an added benefit to our members, we decided to upgrade our career center and join the National Healthcare Career Network. Joining with Boxwood Technology, our new career center, opened on September 15, offers job seekers and employers a hassle-free searching experience. We encourage all of our members to take a few minutes to explore the new career center.

We also released a version of the brochure, *Explore Pharmacology*, containing ads for 32 graduate programs in pharmacology. *Explore Pharmacology* explains what pharmacologists study, sub-disciplines, possible careers and much more. The brochure was sent out to all of our undergraduate members, as well as the Summer Undergraduate Research Programs. We gave brochures to interested students at three meetings in the fall, with the hope of increasing interest in the field of pharmacology.

As the year comes to a close, we look forward to 2012 and the changes it will bring to ASPET. We will continue to expand our advocacy outreach, student resources, and journals. As always, we'd love to hear feedback from our members on what we can do to make your experience with ASPET as beneficial as possible.

Wishing you a happy and successful new year,
ASPET Staff

2011 Contributors

ASPET gratefully acknowledges the following individuals who have made contributions over and above dues for 2011:

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Arnold J. Eisenfeld, MD
James P. O'Callaghan, PhD
Charles D. Nichols, PhD

Karl H. Beyer Student Travel Award
Annette Beyers-Mears, PhD
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Goodman & Gilman Award in Receptor Pharmacology
Noelle S. Williams, PhD

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John F. Bowyer, PhD
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Your donations help with programming, awards, and other important society affairs. Making a donation is a great way to demonstrate your commitment to the future of ASPET, pharmacology, and your profession.

Make a donation at www.aspet.org. Be sure to log in as a member so that we can make sure to recognize your generous support.

All donations are tax deductible.

2012 Elections

The ASPET election for President-Elect, Secretary/Treasurer-Elect, and Councilor will take place this month. All Regular, Post-doctoral, and Retired members are eligible to vote. In addition, the following Divisions are holding elections: Division for Drug Metabolism, Division for Integrative Systems, Translational and Clinical Pharmacology, Division for Molecular Pharmacology, Division for Neuropharmacology, and Division for Toxicology. Members will receive emails when the election opens, with instructions on how to vote.

As required by the by-laws, the election site on the web will be open for a minimum of thirty (30) days from the day of notification.

Nominees for President-Elect:

Bryan F. Cox

Richard R. Neubig

Nominees for Secretary/Treasurer-Elect:

Carol A. Paronis

Sandra P. Welch

Nominees for Councilor:

Charles P. France

Haian Fu

2012 Elections

Division for Drug Metabolism

Nominees for Chair-Elect:

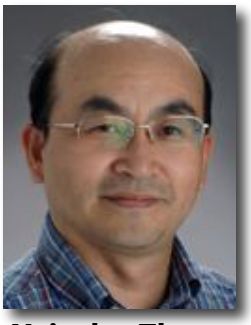

John Y. Chiang


Jeffrey P. Jones


Wen Xie

Nominees for Secretary/Treasurer-Elect:


Nina Isoherranen


Xaio-bo Zhong

Division for Integrative Systems, Translational and Clinical Pharmacology

Nominee for Chair-Elect:


Ismail Laher

Nominee for Secretary/Treasurer-Elect:


Michael A. Holinstat

Division for Molecular Pharmacology

Nominees for Chair-Elect:


John J. Tesmer


Guangyu Wu

Nominees for Secretary/Treasurer-Elect:


Rennolds S. Ostrom


Yaping Tu

2012 Elections

Division for Neuropharmacology

Nominees for Chair-Elect:

Anne M. Andrews

Laura M. Bohn

Nominees for Secretary/Treasurer-Elect:

Lakshmi A. Devi

Susan L. Ingram Osborn

Ping-yee Law

Division for Toxicology

Nominees for Chair-Elect:

Rick G. Schnellman

Jeffrey Staudinger

Nominees for Secretary/Treasurer-Elect:

Laura James

Kenneth E. McMartin

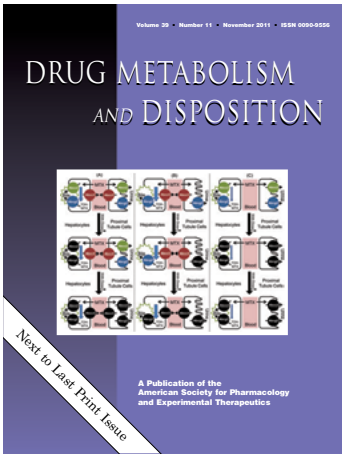
There will be no elections this year for Division of Behavioral Pharmacology, Division for Cardiovascular Pharmacology, Division for Drug Discovery, Development & Regulatory Affairs, and Division for Pharmacology Education.

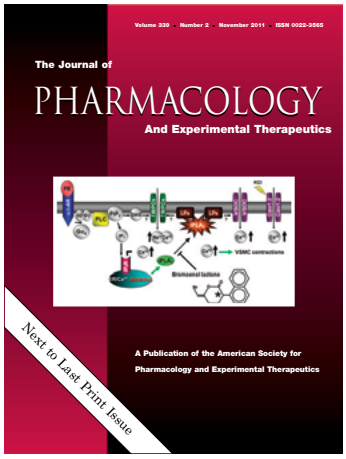
Have you joined a Division?

Take full advantage of ASPET Membership by joining a Division!

- Participate in creating the scientific program for the annual meeting.
- Network with people in your field at mixers and divisional programming at the annual meeting.
- Participate in running the division and planning its activities.
- Receive special notices and newsletters about items and activities of interest in your field.

ASPET Journals





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* **Low page charges** - $50/page for ASPET Members, $90/page for nonmembers

* **Online manuscript submission** - submit your manuscript 24/7, whenever suits your schedule; online peer review reduces review times; track the progress of your manuscript through the review process

* **Wide dissemination** - accepted manuscripts are publicly accessible immediately; fully formatted articles are publicly accessible 12 months after publication; low-cost pay-per-view option for nonsubscribers; abstracts and tables of contents always publicly accessible.

Visit www.aspetjournals.org to access each ASPET journal.

aspet

November 29, 2011

EXPERIMENTAL BIOLOGY 2012 – SAN DIEGO, CA

All rooms listed are in the San Diego Convention Center unless otherwise noted.

ASPET Booths 801-805 | Exhibits 9:00 AM – 4:00 PM Sunday-Tuesday | Lectures | Divisional Programming | Social | Business

Saturday, 4/21	Sunday AM, 4/22	Sunday PM, 4/22	Monday AM, 4/23	Monday PM, 4/23	Tuesday AM, 4/24	Tuesday PM, 4/24	Wednesday AM, 4/25	Wednesday PM, 4/25
Behavioral Pharmacology Meeting	**Diversity Mentoring Breakfast** 7:30 AM – 9:00 AM Marriott **TOX/DM/ISTCP** Role of pharmacogenetics in oncology *Swanson* 9:30 AM – 12:00 PM **Room 5A**	**DM, ISTCP,TOX** Role of nuclear receptors in lipid dysregulation & obesity-related diseases *Chiang/Swanson* 3:00 PM – 5:30 PM **Room 5A**	**DDDRA DIVISION SYMPOSIUM** Mitochondrial dysfunction in human disease *Davis/Williams* 9:30 AM – 12:00 PM **DDDRA BUSINESS MTG** **Room 5B**	**B.B. BRODIE LECTURE** **2:00 – 3:00 PM** **Room 3** **DRUG METABOLISM DIVISION JAMES GILLETTE AWARD & PLATFORM SESSION** 3:00 PM – 5:30 PM **DM BUSINESS MTG** **Room 3**	**TOX, DM, DDDRA** From structure to knockout: Common themes between CYPs & ABC transporters *Vore* 9:30 AM – 12:00 PM **Room 5A**	**TOXICOLOGY DIVISION SYMPOSIUM** The utilization of genetically modified mice to determine mechanisms of toxicity *Hinson* 3:00 PM – 5:30 PM **TOX BUSINESS MTG** **Room 5A**	**DM, TOX, DDDRA** NADH-CYP450 oxidoreductase: Roles in physiology, pharmacology and toxicology *Porter/Riddick* 9:30 AM – 12:00 PM **Room 4**	**DDDRA** Clinical pipeline of marine natural products: The odyssey continues *Glasser/Mayer* 3:00 PM – 5:30 PM **Room 5A**
Graduate Student Colloquium: **2:45 – 5:15 PM** **Room 2**	**BEH, NEU** Neuropsychological correlates of stimulant treatment for ADHD in adolescents & adults *Advokat* 9:30 AM – 12:00 PM **Room 4**	**BEH, DDDRA, NEU** The behavior of pain *Martin* 3:00 PM – 5:30 PM **Room 3**	**BEH, NEU, TOX** Cognitive enhancement to improve treatment outcome & quality of life associated with neuropathologies *Gould/Nader* 9:30 AM – 12:00 PM **Room 3** **FDA Workshop:** FDA's Strategy to Develop and Validate New Anticancer and Cancer Prevention Agents and Pathways **Room 4**	**P.B. DEWS LECTURE** **2:00 – 3:00 PM** **Room 2** **BEHAVIORAL DIVISION SYMPOSIUM:** The behavioral pharmacology of drugs of abuse & drug dependence: A tribute to Steve Holtzman & Bob Schuster *Dykstra/Paronis* 3:00 PM – 5:30 PM **BEH BUSINESS MTG** **Room 2**	**BEH, DDDRA, NEU** Models of affective disorders & pharmacological interventions: The influence of etiology in treatment approach *Nader/Howell* 9:30 AM – 12:00 PM **Room 5B**	**NEUROPHARMACOLOGY DIVISION POSTDOCTORAL AWARD FINALISTS** 3:00 PM – 5:30 PM **NEU BUSINESS MTG** **Room 3**	**RAY FULLER LECTURE – Mark Bear** **8:30 –9:30** **Room 2** FULLER SYMPOSIUM: Progress toward autism drug discovery *M. Bear* 9:30 AM – 12:00 PM **Room 2**	**NEU, BEH, MP** Discovery of protein kinase inhibitors for CNS disorders: Opening new avenues for unmet needs *Gnegy/Watterson* 3:00 PM – 5:30 PM **Room 3**
2012 Teaching Institute: Use of social media in education **12:00 – 2:30 PM** **Room 3**	**MP** Emerging concepts in G protein dependent PLC regulation & physiology *Smrcka* 9:30 AM – 12:00 PM **Room 2**	**AXELROD LECTURE – From farm to pharm: A journey with Seratonin Sanders-Bush** **2:00 – 3:00 PM** **Room 2** AXELROD SYMPOSIUM: Novel insights into the regulation of serotonin function *Sanders-Bush* 3:00 PM – 5:30 PM **Room 2**	**NEU, MP** Location, location, location: The role of membrane micro-domains in dopamine trans-porter function & trafficking *Khoushbouei/Melikian* 9:30 AM – 12:00 PM **Room 2**	**MOLECULAR PHARMACOLOGY DIVISION POSTDOCTORAL SCIENTIST AWARD FINALISTS** 3:00 PM – 5:30 PM **MP BUSINESS MTG** **Room 4**	**J.J. ABEL LECTURE** **8:30 – 9:30 AM** **Room 2** **MP, NEU, ISTCP** Toll-like receptors in neuro-plasticity & disease *Mattson* 9:30 AM – 12:00 PM **Room 3**	**MP, NEU** Regulation of TRP channels *Zhu* 3:00 PM – 5:30 PM **Room 4**	**MP, DDDRA** Protein-protein inter-action (PPI) interfaces as therapeutic targets: promises & challenges *Fu* 9:30 AM – 12:00 PM **Room 3**	**MP, ISTCP, NEU, TOX, CVP** Steroid signaling via G protein-coupled receptors *Prossnitz* 3:00 PM – 5:30 PM **Room 4**

November 29, 2011

EXPERIMENTAL BIOLOGY 2012 – SAN DIEGO, CA

All rooms listed are in the San Diego Convention Center unless otherwise noted.

Program Committee Meeting **12-4:30 PM**	**DDDRA, MP, NEU, BEH, ISTCP** Pharmacology & therapeutic potential of histamine H3 & H4 receptor ligands *Thurmond* 9:30 AM – 12:00 PM **Room 3**	**CVP, ISTCP** Emerging role of heme oxygenase in cardiovascular & metabolic disease *Abraham* 3:00 PM – 5:30 PM **Room 5B**	**CVP, ISTCP** Perivascular (p) fat: Pharmacology, physiology & (P)function *Dorrance/Watts* 9:30 AM – 12:00 PM **Room 4**	**ISTCP DIVISION YOUNG INVESTIGATOR AWARDS PLATFORM SESSION** 3:00 PM – 5:30 PM **ISTCP BUSINESS MTG** **Room 5A**	**CVP, ISTCP** Membrane rafts in endothelial signaling *Levitan/Li* 9:30 AM – 12:00 PM **Room 2**	**CVP DIVISION TRAINEE SHOWCASE** **2:30 -4:30 PM** **Room 2** **VANHOUTTE LECTURE** **4:30 – 5:30 PM** **Room 2** **CVP BUSINESS MTG** **Room 2**	**ISTCP, TOX, NEU** Opioid-induced bowel dysfunction *Akbarali* 9:30 AM – 12:00 PM **Room 5A**	**ISTCP** Applications of biomaterials & drug delivery systems for enhancing tissue engineering & regeneration *Andersson/Christ* 3:00 PM – 5:30 PM **Room 5B**
Business Meeting **6 – 7:30 PM**	**DPE** Building a pharmacology course from scratch: Benefits & pitfalls of a cut & paste pharmacology course *Szarek* 9:30 AM – 12:00 PM San Diego Marriott	**DPE** Adapting TBL techniques to teach pharmacology to graduate, professional & medical students *Kumar* 3:00 PM – 5:30 PM San Diego Marriott	**DPE, BEH** The real world of therapeutic drugs: Bench to boardroom, the bedside & beyond *Rangachari* 9:30 AM – 12:00 PM **Room 5A**	**PHARMACOLOGY EDUCATION DIVISIONAL PROGRAMMING** 3:00 PM – 5:30 PM **DPE BUSINESS MTG** **Room 5B**	**NEU, BEH** The Nociceptin/orphanin FQ-NOP receptor system: Neurobiology, pharmacology & therapeutic opportunities *Calo* 9:30 AM – 12:00 PM **Room 4**	**DDDRA, TOX, MP** Targeting PI3K for human diseases *Rao* 3:00 PM – 5:30 PM **Room 5B**		
Opening Reception 7:30-9:00 PM	**NEU, TOX, MP, DDDRA** Multi target agents: the yin & yang of rational drug discovery *Cross/Wood* 9:30 AM – 12:00 PM **Room 5B**	**Graduate Student/Postdoc poster competition**		**MP, ISTCP/DDDRA/DPE Mixers** **7-9 PM**		**NEU, CVP, DM/TOX mixers** **7-9 PM** **Student/Postdoc mixer** **9-11 PM** **Past Presidents' Dinner**		**Closing Reception** **6-8 PM** **San Diego Marriott**

Important Things to Remember

Important Dates:

February 23, 2012:
- Late-Breaking Abstracts Deadline
- Early Registration Discount Deadline

March 23, 2012:
- Hotel Reservation Deadline

April 6, 2012:
- Child Care Registration Deadline

Helpful at EB 2012:

Child Care - Camp EB will be available each day of the meeting, so you don't have to worry about leaving the kids at home.

Room Share Board - find someone with similar interests to share a room with for the meeting. Visit the EB website for details.

WIP Into Shape - Women in Pharmacology networking walk

Give a Day of Service to San Diego - Friday, April 20 - third annual day of service by ASPET members

Wednesday Reception - stay for the afternoon sessions on Wednesday and enjoy one more night in San Diego at a reception hosted by ASPET.

Journals
by Rich Dodenhoff

End of One Era, Beginning of Another

The December issues of ASPET's journals have been printed and mailed, ending 103 years of print publication. The January issues will go online by mid-December, starting the Society's age of online-only publication. It's been an unexpectedly bittersweet experience for me. When I made arrangements for a "Next to Last Print Issue" cover banner for the November issues, it hit me that I have a lot of knowledge about print production and postal regulations that is no longer needed.

Should I bother keeping my USPS Mailer Education Center Certificate of Training in Second-Class Mail (a treasured memento)? It's not even called second-class mail now. At least I no longer have to keep track of the number of copies we mail, broken down by paid and complimentary, and complete an annual USPS Statement of Ownership, Management, and Circulation form for each journal every September. That will save a couple of days' work.

How to break down a print job into signatures, how to place color figures for the most economical layout, and being able to tell the weight of paper stock just by running it between my fingers – no longer needed. I wasn't very good at the last one anyway. At the same time, the days are past of getting a gut-wrenching feeling when a print issue arrives missing a signature and you have no way of knowing how many copies were mailed with the same error.

The move to online-only publication brings new challenges, opportunities, and learning experiences. One immediate plus for authors and readers: There is no difference in the cost of publishing color versus black and white images online, so color figure fees were eliminated with the January issues. The Board of Publications Trustees just voted to raise the limit on references in research articles from 40 to 60. The savings on print and mailing costs made that an easier decision.

I recently helped organize and moderate a seminar about moving to online-only publication for the Society for Scholarly Publishing, picking up many ideas from societies and commercial publishers that have dropped print. New features and ways of presenting content seem to evolve continuously in the publishing industry and in online communities. We will incorporate the best and most appropriate developments in scientific communication for the benefit of ASPET's members, authors, and readers. Stay tuned (as they used to say)!

New Editorial Board Members

As Dr. Stephen Traynelis assumes the editorship of *Molecular Pharmacology*, the following new associate editors will join the *MOL* editorial board:

- Dr. Arthur Christopoulos, Monash Institute of Pharmaceutical Sciences and Department of Pharmacology
- Dr. Stuart Cull-Candy, University College London
- Dr. Haian Fu, Emory University School of Medicine
- Dr. John Hepler, Emory University School of Medicine
- Dr. Jeanee Nerbonne, Washington University School of Medicine
- Dr. Mary Vore, University of Kentucky College of Medicine

Concurrent with Dr. Eddie Morgan becoming the next editor of *Drug Metabolism and Disposition*, Dr. Bill J. Smith of Pfizer Global Research and Development will join the *DMD* editorial board as an associate editor.

The transitions from Dr. Jeff Conn to Dr. Traynelis and from Dr. Eric Johnson to Dr. Morgan are well under way. The new editors will take on full responsibility for their respective journals at the start of 2012. Manuscript submission and peer review will continue to be handled online using the same system.

Many thanks go to the new editors and associate editors for their willingness to serve ASPET in these important roles. The Society is grateful for the editors and editorial board members who will retire at the end of this year and appreciates all those who will continue to serve in the coming year.

ASPET Journals

Starting in 2012, all ASPET Journals will be available online only. Institutional subscriptions include online access, and all ASPET members get access as a member benefit. If you have not already activated your online access, you should do so. For assistance, please email subscriptions@aspet.org.

FASEB Award

FASEB Excellence in Science Award 2013 Call for Nominations

FASEB is seeking nominations for its 2013 Excellence in Science Award that recognizes the significant accomplishments of women scientists. We look forward to another list of nominees that reads like a 'Who's Who' of international science, containing the names of outstanding women in science who have accomplished scientific work of lasting impact and have contributed substantially to training the next generation of scientists.

Nominations must be submitted on the FASEB award website by March 1, 2012.
PAPER SUBMISSIONS WILL NOT BE ACCEPTED

Nomination Procedures:
Nominators and their candidates must be members of a FASEB member society. Self-nominations will not be accepted. All nominations must be submitted on the FASEB Excellence in Science Award website. Access to the site is located at www.faseb.org/excellenceinscience.

Submissions must include all of the following documents that are to be uploaded individually in PDF format.

1. Nomination Letter, setting forth *in detail*:
- Contributions to the field that represents the nominee's outstanding achievement in science
- Leadership and mentorship
- Evidence of national recognition
- Honors and awards
- Synopsis of selected bibliography

2. Full Curriculum Vitae - including *all* publications
- The C.V. must document all publications, leadership roles, mentorship, teaching, honors, and awards
- 5 Reprints
- 3 Letters of Support from Peers
- 3 Trainee letters of recommendation

The Excellence in Science Award is sponsored solely by FASEB to recognize outstanding achievement by women in biological science. All women who are members of one or more of the societies of FASEB will be eligible for nomination. Nominations recognize a woman whose career achievements have contributed significantly to further our understanding of a particular discipline by excellence in research.

For complete award details, go to:
www.faseb.org/excellenceinscience.

NOMINATION DEADLINE: March 1, 2012

For questions, please contact:
Linda Stricker
Senior Executive Assistant
Board and Committee Administrator
Federation of American Societies for Experimental Biology
9650 Rockville Pike
Bethesda, Maryland 20814-3998
Tel. (301) 634-7092
Email: lstricker@faseb.org

APS Award

American Pain Society Announces the 2012 Rita Allen Foundation Award in Pain

The Rita Allen Foundation (RAF) and the American Pain Society (APS) announce a call for applications for the 2012 Rita Allen Foundation Award in Pain.

The RAF and APS may award two grants in the amount of $50,000 annually, for a period of up to three years to those research proposals demonstrating the greatest merit and potential for success.

Candidates must have completed their training and provided persuasive evidence of distinguished achievement or extraordinary promise in basic science research in pain. Candidates should be in the early stages of their career with an appointment at a faculty level.

For information on general information, deadlines, research topcs, eligibility, and grant budget and grantee obligations, please see http://www.ampainsoc.org/awards/rita_allen.htm.

10th International Catecholamine Symposium

Dear Colleagues,

It is with much anticipation and excitement that we invite you to attend the Tenth International Catecholamine Symposium (XICS), September 9-13, 2012, at the Asilomar Conference Center in Pacific Grove, California. The field of catecholamine research has not undergone comprehensive updating for 10 years. Meanwhile a tremendous amount of new information has emerged from genetic, molecular, neurochemical, nuclear imaging, pharmacologic, and other techniques, substantiating the key roles of catecholamine systems in a variety of clinical phenomena in neurology, psychiatry, cardiology, endocrinology & metabolism, drug and alcohol abuse, multi-system diseases, and general medicine. Presentations at the XICS will be categorized in 10 Themes. **The Themes are:**

***Synthesis & Storage**
***Release & Reuptake**
***Metabolism**
***Receptors**
***Neurology**
***Psychiatry & Psychology**
***Drug Addiction**
***Peripheral Catecholamine Systems**
***Integrative Medicine**
***Interactions with Other Systems**

In addition to the Themes, two evening Satellite sessions will be held on catecholamine-related laboratory techniques and on therapeutics of catecholamine-related disorders. Please visit the conference website at www.10thintcatsymp.org to learn more about the Symposium. State-of-the-art science will be presented at the renowned Asilomar Conference Grounds, the "refuge by the sea." All your meals are included in the room rate, and the XICS registration will cover an unforgettable evening gala and banquet at the Monterey Bay Aquarium. The Asilomar Conference Grounds has a pleasant climate this time of year and offers spectacular coastal scenery and hiking, biking and walking on the beach. We look forward to welcoming you to Asilomar and to a truly unique and important international meeting in September, 2012!

Daniel O'Connor, President, Catecholamine Society
Esther Sabban
David S. Goldstein
Lee E. Eiden
David R. Sibley

ONLINE REGISTRATION WILL OPEN NOVEMBER 28, 2011.
FOR MORE INFORMATION, VISIT WWW.10THINTCATSYMP.ORG

Meeting Organization: Parthenon Management Group
* P. 615-324-2365 *F. 615-523-1715 * Email: info@10thintcatsymp.org
*5034A Thoroughbred Lane, Brentwood, TN 37027

ABSTRACT SUBMISSION WILL OPEN IN EARLY DECEMBER, 2011.

The deadline for abstract submission is March 31, 2012.

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Public Affairs
by Jim Bernstein

Legislative Update

As The Pharmacologist goes to press, FY 2012 funding issues for NIH still have not been resolved. But it does look like the end game is shaping up. Here is an update on the funding status for NIH and other federal science agencies.

Congress has passed another FY 2012 stopgap measure, a Continuing Resolution (CR), to fund some agencies, including NIH through December 16. NIH would continue to be funded at the FY 2011 level through December 16, at which time another CR would have to pass unless the bill is finally resolved. The previous CR expired November 18. The FY 2012 fiscal year began on October 1.

The CR through December 16 is part of a small, "minibus" deal that includes three appropriations bills, the Commerce, Justice and Science appropriations bill; the Transportation and Housing and Urban Development appropriations bill; and the Agriculture, Rural Development, and Food and Drug Administration appropriations bill. Agencies and programs contained in the minibus are funded through the remainder of the fiscal year.

NIH is funded under the Labor/HSS Appropriations Subcommittee and alternatively, a larger Omnibus bill may be passed by Congress that could include more favorable terms for NIH funding than another CR, potentially a year long CR, that would keep NIH funding at 1.5% below the FY 2011 level.

Congressional Conferees finalized funding details for the Agriculture bill which funds FDA, approving the Senate recommended $50 million increase. The difference between the House and Senate bills was substantial. The House bill proposed a $275 million cut. The additional $50 million is directed to be spent on implementing the new food safety law and continuing FDA's efforts to advance medical countermeasures against bioterror attacks. Other FDA centers and offices will have about the same spending levels as in FY 11.

The National Science Foundation, funded under the Commerce, Justice and Science Appropriations bill, received a $173 million increase above the FY 2011 level.

The Congressional "supercommittee" charged with reaching an agreement to reduce spending by at least $1.2 trillion over the next decade failed by their Thanksgiving deadline. Even if the supercommittee arrived at an agreement, it was not certain that it would pass the House. As a result of the failure of this effort, there is now a plan for automatic "sequestration" or across-the board cuts of funds starting in FY 2013. These cuts would be applied to all programs and agencies with no priortiziation. Sequestration would entail huge cuts to defense and that is one reason (the other being a potential shock to financial markets) why there was some last minute hope that an agreement would be reached by supercommittee members. For NIH and other federal agencies, across-the-board spending cuts would take a severe hit, with cuts of 5-10%. Meanwhile, Congress has almost another year to try to come up with some type of credible deficit reduction plan to prevent draconian across the board budget cuts.

ASPET Advocacy Outreach and Capitol Hill Visits

ASPET's Advocacy Outreach Program is designed to develop awareness in graduate students, postdocs, and faculty of the need for enhanced biomedical research advocacy. The presentations provide an overview of the political and economic environment impacting NIH funding and the skills needed to allow scientists-advocates to help influence the debate. ASPET has made presentations at the University of Louisville, UT Southwestern Medical Center, Emory University, Michigan Pharmacology Colloquium at Wayne State, Vanderbilt University Medical Center, and the Drexel College of Medicine. ASPET's Advocacy Outreach is often part of the institution's postdoctoral student association scheduled meetings or talks. There is no financial obligation to your institution or department. ASPET assumes hotel and travel costs.

To further enhance ASPET member advocacy, ASPET is encouraging its membership visiting Washington, DC/ Bethesda for NIH or other business to make Capitol Hill visits to your Congressional delegation. To help facilitate this, ASPET will assume the costs of an extra night hotel stay following the conclusion of your official business. So members will now be able to conclude their professional business one afternoon, stay an additional night, visit Capitol Hill offices the next day, and fly home later that afternoon or early evening. ASPET will make all Congressional meeting arrangements, provide talking points, etc, and have you well prepared for the day of advocacy.

To find out more about ASPET's Advocacy Outreach Program and ASPET's member Capitol Hill visits, contact Jim Bernstein at jbernstein@aspet.org or 301-634-7062.

Member News

ASPET's Claire M. Fraser-Liggett Selected to Institute of Medicine

The Institute of Medicine (IOM) announced the names of 65 new members and five foreign associates. ASPET member Claire M. Fraser-Liggett, director, Institute for Genome Sciences, and Professor of Medicine, Microbiology, and Immunology, University of Maryland School of Medicine in Baltimore was among those selected for one of the highest honors in the fields of health and medicine.

New members are elected by current active members through a highly selective process that recognizes individuals who have made major contributions to the advancement of the medical sciences, health care, and public health. A diversity of talent among IOM's membership is assured by the Institute's charter, which stipulates that at least one-quarter of the membership is selected from outside the health professions, for example, from such fields as the natural, social, and behavioral sciences; law; engineering; and the humanities. The newly elected members raise IOM's total active membership to 1,688 and the number of foreign associates to 102. With an additional 80 members holding emeritus status, IOM's total membership is 1,870.

Established in 1970 as the health branch of the National Academy of Sciences, IOM has become recognized as a national resource for independent, scientifically informed analysis and recommendations on health issues. Projects during the past year include studies on calculating people's vitamin D and calcium needs; improving the process for clearing medical devices for the market; preventing obesity among infants and toddlers; improving American's access to oral health care; preparing for the future of HIV/AIDS in Africa; ensuring the health of lesbian, gay, bisexual, and transgender people; and enhancing nurses' roles in improving health care.

The newly elected members of the Institute of Medicine are:
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David Vlahov, R.N., Ph.D.
Mark E. von Zastrow, M.D., Ph.D.
Cun-Yu Wang, D.D.S., Ph.D.
James N. Weinstein, D.O., M.Sc.

Newly elected foreign associates are:
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Tomas Hökfelt, M.D., Ph.D.
Richard C. Horton, M.B., Ch.B., F.R.C.P., F.Med.Sci.
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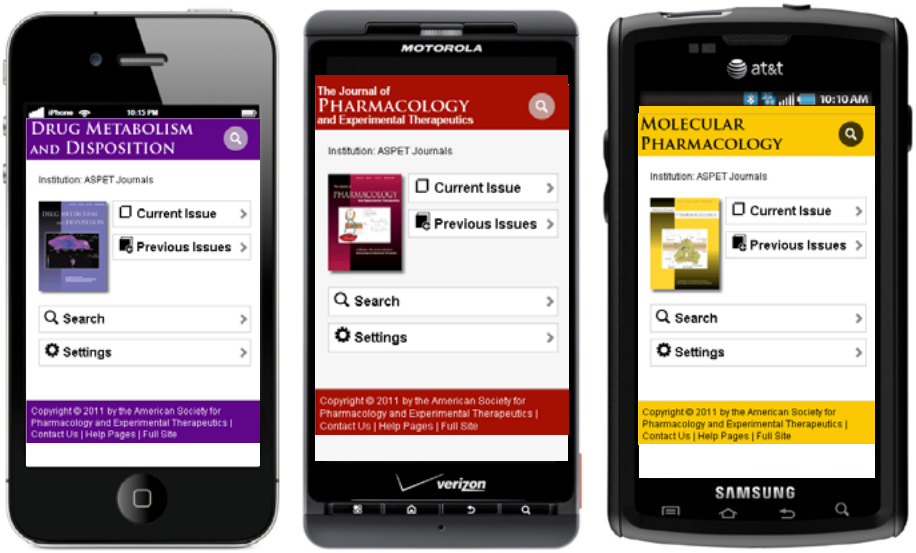

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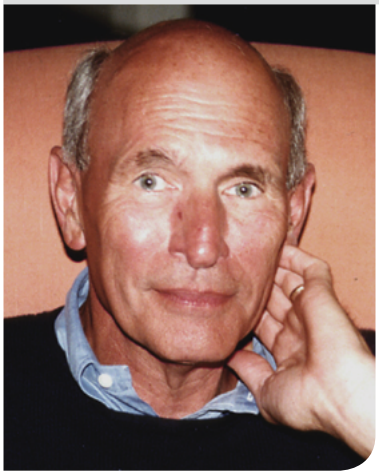
In Sympathy

ASPET notes with sympathy the passing of the following members:

Shao-Chia Chou
Richard A. Edgren
Theodore M. Farber
John A. Harvey
Tag Mansour

Obituaries



John A. Harvey (1931–2011)

John A. Harvey died on June 25, 2011 at the age of 80. He was born in New York City but was raised in Siberia by his grandparents during the first decade of his life. John completed his B.A. degree in 1955, received his Ph.D. degree from the prestigious doctoral program in biopsychology in 1959, and began his long and celebrated career as a faculty member, all at the University of Chicago. He moved to the University of Iowa in 1968 and then to Drexel University College of Medicine in the Department of Pharmacology and Physiology in 1988, where he served as Chair from 2006-2008.

John Harvey's research career is highlighted by many seminal scientific contributions related to the biochemistry of the brain and the development of behavioral neuropharmacology. While at Chicago, he laid the foundation for decades of investigations by seeking to explain how specific neurotransmitters within the central nervous system governed behavior and produced behavioral responses to many common drugs. He launched his career by establishing that monoamine neurotransmitters were organized into fiber tracts that could be identified and selectively destroyed to determine their behavioral functions. Once the brain was damaged, he showed how impaired behavioral functions were recovered by restoring depleted neurotransmitters or stimulating denervated receptors. Using a model of increased pain sensitivity associated with serotonin depletion, he showed that the precursor 5-HTP could replenish 5-HT to reverse that behavioral deficit. This remained a model for the treatment of neurological damage for years. He championed the transformative idea that medications used to treat psychiatric disorders produced their effects by modifying behavioral functions attributed to monoaminergic pathways. Subsequently, he established that fenfluramine and amphetamine derivatives were neurotoxic and depleted brain 5-HT, initiating investigations that continue in the substance abuse field. He was among the first to recognize a relationship between brain lesions that destroyed dopaminergic fibers and deficits in feeding and other motivated behaviors.

As a lifelong student of the Russian physiologist Ivan Pavlov, John used pavlovian conditioning of the rabbit nictitating membrane response for the past 25 years to understand how drugs influence learning. John identified the underlying

neural circuitry in the rabbit brainstem required for associative learning and then established how drugs specifically altered different components of pavlovian conditioning. His research established unequivocally that hallucinogenic drugs enhanced learning by activating 5-HT2 receptors and established key roles for these receptors in learning and cognition. At Drexel University, he established a NIDA program project that used pavlovian conditioning to study the detrimental influence of prenatal exposure to cocaine on development. He also used pavlovian conditioning to examine the effects of brain dysfunction related to autism, applying these behavioral techniques in a quest for translational biomarkers for this neurodevelopmental disorder.

John Harvey published over 150 peer-reviewed articles, reviews, and book chapters, and his research contributions were recognized by numerous awards. His career achievements in serotonin research were honored by the Irvine H. Page Award at the 2006 international meeting of the Serotonin Club. John was an active member of many professional societies in pharmacology and neuroscience, holding executive or committee positions in the American College of Neuropsychopharmacology, Behavioral Pharmacology Society, American Psychological Association, Society for Neuroscience, the Society for Biological Psychiatry, and many others. He joined the American Society of Pharmacology & Experimental Therapeutics in 1965. Serving as Chair of the Division of Behavioral Pharmacology, he participated in many of its executive committees. He was especially proud of serving the *Journal of Pharmacology and Experimental Therapeutics* as Specific Field Editor (1981-1991) and then Editor-in-Chief and member of the Board of Publication Trustees (1992-1997). He was a member of the editorial boards for more than ten journals.

John Harvey was widely known and respected for his humor, collegiality, and for his intelligence and was considered by many to be the paramount gentleman. He trained many graduate students and postdoctoral fellows, many of whom developed their own productive and influential careers in biomedical research. John was the beloved husband to Dr. Rhoda Harvey, and father to sons Michael (wife Pilar), Andrew (wife Sonya), and his eldest son, David, who predeceased him. He was also a loving grandfather to Oliver and Davia who brought him the greatest joy and pride. With his passing, many who are reading this commentary on John's life and contributions lost a cherished friend and dear colleague.

Written by Irwin Lucki, Departments of Psychiatry and Pharmacology, University of Pennsylvania, Philadelphia, PA

Richard A. Edgren (1925–2010)

Richard A. Edgren, Ph.D., born May 28, 1925 in Chicago, Illinois, died December 29, 2010 at Stanford Hospital, Palo Alto, CA. Survivors include Margery, his wife of 58 years; daughters Susan and Jean; grandchildren Allison, Lisa, Anthony, James, and Cedric; and one great granddaughter, Genevieve.

Military record: Army of the United States, 1943-1946; Signal Corps Infantry and Air Forces. Purple Heart, ETO Ribbon with two battle stars, Combat Infantry Badge

He earned three degrees in biology from Northwestern: B.S. in 1949, M.S. in 1950, and Ph.D. in 1952. He had a lifelong career in pharmaceutical research involving five major U.S. pharmaceutical companies and retired from Syntex Laboratories in 1993.

He was a member of 16 professional societies, served on the boards of five, and was associate editor of one. He worked on endocrine programs that led to the marketing of five pharmaceuticals and was the U.S. patent holder on one pharmaceutical, Tri-Norinyl, assigned to Syntex. He was the author of over 200 scientific papers, abstracts, and chapters.

Prepared by Margery Edgren.

Obituaries

Donald M. Jerina (1940 - 2011)

Donald M. Jerina was born in Chicago on January 17, 1940 and passed away on May 22, 2011. He was an outstanding synthetic chemist and biologist with a focus on oxidation mechanisms and the synthesis and identification of proximate and ultimate carcinogenic metabolites of polycyclic aromatic hydrocarbons. Dr. Jerina received his Ph.D. in organic chemistry from Northwestern University (1966), went to the NIH in 1966 as a staff fellow and became chief of the section on Oxidation Mechanisms at the National Institute of Diabetes, Digestive and Kidney Diseases in 1973. He closed his lab at the NIH in 2006.

During the late 1960s, Dr. Jerina and his colleagues determined the role of arene oxides in the unexpected migration of substituents during the enzymatic formation of phenols, a phenomenon that became known as the "NIH Shift".

In the 1970s, Dr. Jerina undertook an extensive program to identify proximate and ultimate carcinogenic metabolites derived from the environmentally prevalent polycyclic aromatic hydrocarbon, benzo[a]pyrene. The approach taken was to synthesize all of the potential oxidative metabolites of the hydrocarbon and to identify those which were metabolic intermediates in cell free systems, as well as to test these synthesized molecules for mutagenicity in cell culture systems and for tumorigenicity in animal models. For this purpose, 50-100 mg amounts of all of the metabolically possible phenols, arene oxides, dihydrodiols, and diol epoxides of benzo[a]pyrene were synthesized in Dr. Jerina's laboratory. Although these amounts may seem modest, novel multi-step synthetic methods had to be developed which often required kilogram amounts of starting material. For the biological studies, a highly productive collaborative program was initiated between Dr. Jerina and my laboratory, then at Hoffmann-La Roche. This collaborative research program provided the first direct demonstration of proximate and ultimate carcinogenic metabolites from the polycyclic aromatic hydrocarbon class of environmental carcinogens.

A quantum mechanical model of potential reactivity developed by Dr. Jerina led him to develop the bay-region theory, which predicted that diol epoxides in which the benzylic epoxide is located on a tetrahydro benzo-ring in a bay-region (typified by the cup shaped region between positions 10 and 11 of benzo[a]pyrene) would also be the ultimate carcinogens derived from metabolism of other polycyclic aromatic hydrocarbons. The predictive power of this theory was demonstrated by metabolism and tumor studies with more than a dozen hydrocarbons including benzo[a]pyrene, chrysene, benz[a]anthracene and dibenz[a,h]anthracene, 3-methylcholanthrene, dibenzo[a,i]pyrene, dibenzo[a,h]pyrene, benz[a]acridine, benz[c]acridine, 7-methylbenz[c]acridine, dibenz[a,h]acridine and dibenz[c,h]acridine, whose bay-region diol epoxides and/or dihydrodiol precursors were synthesized in Dr. Jerina's laboratory. An extension of the bay-region theory to hydrocarbons containing a fjord region (typified by the hindered region between positions 1 and 12 of benzo[c]phenanthrene) led to the finding that the fjord-region 3,4-diol 1,2-epoxides, although minor metabolites from benzo[c]phenanthrene, are even more carcinogenic than their benzo[a]pyrene counterparts.

During 1976-1986, Dr. Jerina, together with collaborators at Roche, demonstrated marked stereoselectivity in the metabolism of benzo[a]pyrene by liver microsomal enzymes to dihydrodiols and diol epoxides. The optically active and highly carcinogenic (+)-(7R,8S,9S,10R)-7,8-diol-9,10-epoxide was the major bay-region diol epoxide formed metabolically. In additional studies, Dr. Jerina and his collaborators identified optically active ultimate mutagens and carcinogens from several polycyclic aromatic hydrocarbons. They demonstrated that optically active bay-region diol epoxides of benzo[a] pyrene, benz[a]anthracene, chrysene and benzo[c]phenanthrene (4 diol epoxides from each hydrocarbon were studied) have high mutagenicity in Chinese hamster V-79 cells (hprt locus) and high tumorigenicity on mouse skin and in the newborn mouse only when the absolute configuration of the diol epoxide is RSSR.

In additional studies, Dr. Jerina defined the site and structure of diol epoxides adducted to oligonucleotides, and in collaborative studies utilized the adducted oligonucleotides to probe interactions of the DNA with DNA polymerases, topoisomerases, helicase, and retroviral enzymes. These studies provided new insights for the interaction of such enzymes with adducted oligonucleotides.

Dr. Jerina has >500 publications, and he has received several awards including the Hillebrand Prize from the American Chemical Society (1979), the B.B. Brodie Award for Research in Drug Metabolism from the American Society for Pharmacology and Experimental Therapeutics (1982) and the Polycyclic Aromatic Compound Research Award from the International Society for Polycyclic Aromatic Compounds (1999).

Donald Jerina, through his pioneering work in chemistry and biology, advanced our understanding of xenobiotic metabolism, as well as our understanding of the metabolism of environmental polycyclic aromatic hydrocarbons to proximate and ultimate carcinogens. Don will be greatly missed. He leaves behind a brother-Kenneth Jerina and a sister, Linda Buis, as well as two children-Derek Jerina and Julianne Marcus, and a grandson-Adam.

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Tag Mansour (1924–2011)

Tag Mansour, PhD, who led the Stanford School of Medicine's pharmacology department during the early days of the molecular genetics revolution and on through more than a decade of growth, died Nov. 4, two days before his 87th birthday. He had suffered from Alzheimer's disease for several years.

Mansour's research focused on the biochemistry of parasites, an interest spurred by firsthand knowledge of the suffering they cause around the globe. "He was a pioneer in the application of biochemistry to understanding how parasites work, with the aim of killing a parasite without killing the person," said Jim Ferrell, PhD, a professor of chemical and systems biology who worked in Mansour's Stanford lab as a graduate student.

Born in Egypt, Mansour earned a degree in veterinary science from the University of Cairo, and doctorates in pharmacology and biochemistry from the University of Birmingham in England.

After completing his pharmacology studies in England, he returned to Egypt in 1949 for a job at Cairo University, where he was put to work vaccinating cows. Seeking opportunities for laboratory research, he volunteered at the U.S. Naval Research Center in Cairo and applied for a Fulbright fellowship, which brought him to the United States, to Howard University in 1951 to teach pharmacology.

Mansour was able to stay and work in the United States after the fellowship because of an administrative mistake — "a lucky one," said his wife, Joan MacKinnon Mansour, who met him shortly after the fellowship ended. "He received an immigrant visa instead of a student visa."

Tag Mansour moved to Cleveland in 1952 to join Ernest Bueding, MD, at Western Reserve (now Case Western Reserve University) to study the parasitic worm Schistosoma mansoni. S. mansoni and other closely related species are the cause of schistosomiasis (also known as bilharzia or snail fever). Endemic to Egypt, it is the world's second-most socioeconomically devastating parasitic disease after malaria. In 1954 he returned to Egypt to work at Cairo University, but political and military conflicts closed the school, and when Bueding moved to the University of Louisiana in New Orleans and offered him a position, he soon followed.

Mansour joined Stanford's Department of Pharmacology faculty in 1961, continuing his Schistosoma research. (The department has since become the Department of Chemical and Systems Biology.) He purified one of the organism's key enzymes, phosphofructokinase, and went on to make important contributions to the understanding of how it regulates energy production and serotonin signaling. He later determined the genetic sequence for the enzyme. He also studied the biochemistry of other parasites, including the liver fluke Fasiciola hepatica, and the protozoan Toxoplasma gondii.

Mansour became the department's chairman and was named the first Baxter professor of the Donald and Delia Baxter Foundation in 1976. For many years, he led the Stanford section of a MacArthur Foundation-funded international research program on the biology of parasites. He served as consultant to the World Health Organization and the National Academies of Sciences. He was a recipient of the prestigious Heath Clark Lectureship at the London School of Hygiene and Tropical Medicine. His 2002 book, Chemotherapeutic Targets in Parasites, offers a comprehensive discussion of how to discover new drug treatments for parasites.

Medical research was not, however, Mansour's only deep interest. "He painted in the evenings, after work," said his wife. Vibrantly colored works in oil and tempera, and Arabic calligraphy range across the walls of his home on the Stanford campus. In 2005, he exhibited his work in the Stanford Faculty Club.

He encouraged his students and postdocs to pursue their interests, even if they took them beyond the lab bench. In the 1970s, the lab was an eclectic collection of talented individuals and research topics, recalled former graduate student and postdoctoral researcher John Northup, PhD, now a senior investigator at the National Institute on Deafness and Other Communication Disorders.

"His laboratory was very much in the continental style: Each project was assigned to an individual investigator rather than a large team of researchers grinding out results. The atmosphere of the lab matched Dr. Mansour's 'renaissance scholar' approach to knowledge. He often would remind me that I was to receive a doctorate in philosophy, not technology," Northup said. "He was truly a gentleman scholar of the Old World who adhered to that ethos throughout his career."

Mansour remained involved in medicine in the Arab world while in the United States. He helped establish the medical school at the University of Aleppo in Syria, teaching there briefly in 1970, and played a similar role at the University of Kuwait in 1977. In 1963, UNICEF hired him to write a proposal for Egypt's health ministry to treat S. mansoni, though as far as he knew, it was never pursued. "When he asked an official about what happened to his proposal years later, he'd say he was told, 'it was locked in a safe,'" said his wife.

Mansour is survived by his wife; their three children, Suzanne Mansour, of Salt Lake City, Jeanne Peterson, of Tacoma, Wash., and Dean Mansour, of Redwood City, Calif.; and four grandchildren.

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Membership Application

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Expected Degree & Date: School: City/State/Country: Major Field:

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