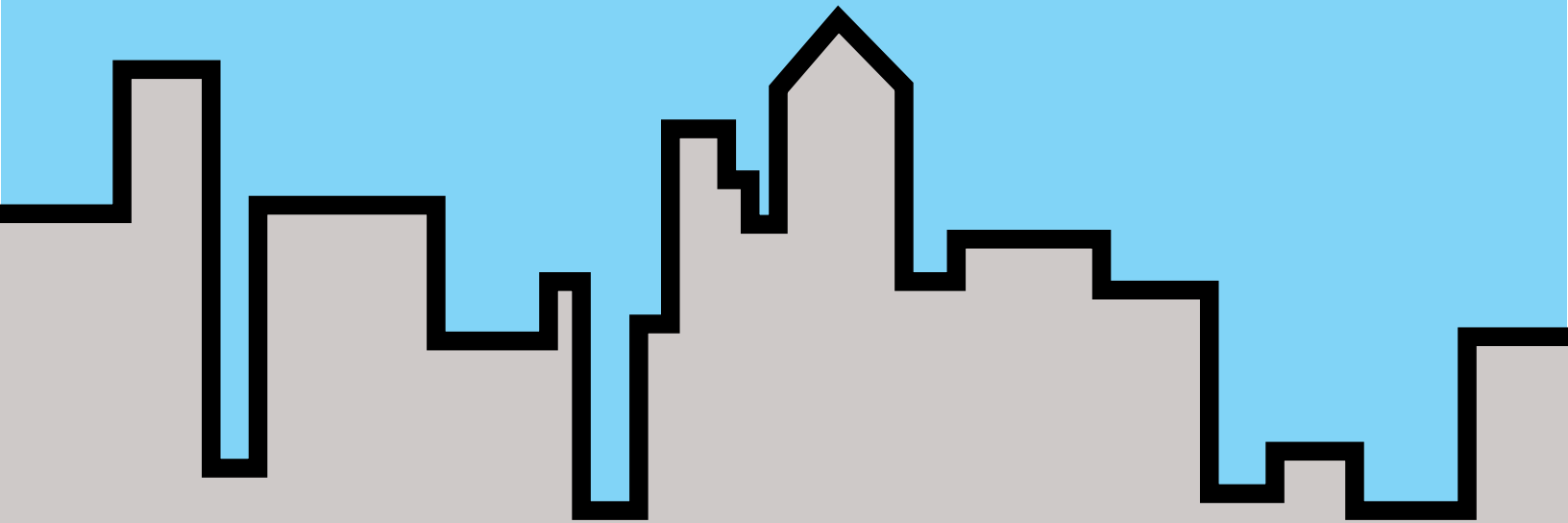


Experimental Biology

2012

Welcome to San Diego!



In this issue:

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New ASPET Committee and Division Lists
ASPET Online Career Center
Information for Experimental Biology 2012

The Pharmacologist

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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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Message from the President



Dear ASPET Members,

I would like to thank all those who elected me to the Presidency of ASPET. I am truly humbled and honored to serve as ASPET's 80th (and 6th female) President, and sincerely hope that ASPET can continue to move forward and meet the needs of its members and society.

When I ran for the position of President, I envisioned the most important roles of ASPET to include education and research. We need to ensure that the younger generation is well aware of the discipline of pharmacology and what it has to offer as a profession. To this end, I encourage the development of more undergraduate courses or programs throughout the country, and strive to create an infrastructure to provide interested faculty the information necessary to help them achieve this endeavor. We also need to ensure that junior level investigators have the resources and mentoring to ensure their future success. We need to continue to support funding initiatives at all levels, and provide junior faculty career guidance to achieve their potential. As a matter-of-fact, because ASPET is your society, we will be launching a new online Career Center this month on our website. We have joined the National Healthcare Career Network and will soon have a place to both post and seek career opportunities. Keep your eyes open for more information soon.

During the past few years, we have made great strides in our use of electronic and social media. Our web site has improved dramatically, we have a presence on Facebook, and Twitter and LinkedIn are being used to disseminate information and promote discussion. Thanks to Joe Beavo and Brian Cox for setting the stage for and initiating these endeavors, and thanks to Christie Carrico and our Executive Office for embracing and promoting these endeavors.

As more and more individuals rely on electronic sources of information, members of ASPET need to take a proactive role in ensuring that information is available and is valid. I am thrilled that the Education Division under the

leadership of Lynn Crespo has indicated their willingness to take on this challenge, and I look forward to working closely with them on this endeavor. We also need to continue to educate those in the community-at-large, as well as government officials involved in legislation affecting both drug regulation and research funding. We need to support the efforts of our members in this direction and provide them with the tools and resources necessary to be effective.

When Jim Halpert assumed the Presidency of ASPET a year ago, he asked what can be done to strengthen the discipline of pharmacology? Jim, Brian Cox, John Lazo and I, in a PharmTalk Blog, challenged the members of our Society to think about the role of ASPET in the future. The world has changed dramatically since ASPET was founded, and the critical roles and responsibilities of ASPET need to be redefined in our ever changing global society. To this end, members of Council and other representatives from ASPET including graduate students, postdoctorals, and young faculty will have a retreat in October to address this issue. We hope to build a shared vision for ASPET 2020. I thank those individuals who responded to the blog and have given us some food for thought, and I encourage others to continue to respond.

Finally, as I begin my leadership role, it is most fitting to share a story that most of you do not know, that is, the story of how ASPET changed my life. When I was a junior in college majoring in chemistry, I attended a meeting of The American Chemical Society at which there was career placement center. I filled out a form indicating that I would be graduating with my B.S. the following year, and that my interests were chemical reactions of the nervous system. I met many interesting biochemists at the meeting, but they didn't seem to know much about drugs, a topic that interested me - keep in mind that that this was during the late sixties when mind-altering drugs were a major part of every university campus. Shortly after I returned to campus, a booklet came in the mail from ASPET, and through this I discovered the field of neuropharmacology. You all know the rest of the story....

Sincerely,
Lynn Wecker, PhD
President

Experimental Biology 2012: Preliminary Program

Saturday, April 21 Sessions

Graduate Student Colloquium

San Diego Convention Center, Room 2

2:45 pm – 5:15 pm

Chairs: Lisa Schrott, Louisiana State Univ. Hlth. Sci. Ctr. and Jeff Fedan, NIOSH

2012 Teaching Institute

San Diego Convention Center, Room 3

12:00 pm – 2:30 pm

Chair: John Szarek, Commonwealth Med. Col.

ASPET Business Meeting

San Diego Marriott Marquis & Marina

6:00 pm – 7:30 pm

ASPET Opening and Awards Reception

San Diego Marriott Marquis & Marina

7:30 pm – 9:30 pm

Sunday, April 22 Morning Sessions

Diversity Mentoring Breakfast

San Diego Marriott Marquis & Marina

7:30 am – 9:00 am

Building a pharmacology course from scratch: Benefits and pitfalls of a cut and paste pharmacology course

San Diego Marriott Marquis & Marina

9:30 am – 12:00 pm

Sponsored by the Division for Pharmacology Education

Chair: John Szarek, Commonwealth Med. Col.

Coordinating development of a pharmacology course using materials from volunteer faculty across North America. - Leszek Wojnowski, Johannes Gutenberg-Univ. Mainz, Germany

Preparing materials for use at sites other than your own medical school. - Charles Mayer, Med. Col. of Wisconsin

Facilitating learning anywhere, anytime using mobile devices. - John Bartlett, Duke Univ. Med. Ctr.

Did it work? Responses from KCMC students. - John Szarek, Commonwealth Med. Col.

Panel discussion: Should we develop a national repository of pharmacology topics? - David Bailey, Univ. of Western Ontario

Emerging concepts in G protein dependent PLC regulation and physiology

San Diego Convention Center, Room 2

9:30 am – 12:00 pm

Sponsored by the Division for Molecular Pharmacology

Chair: Alan V. Smrcka, Univ. of Rochester Sch. of Med.

Experimental Biology 2012: Preliminary Program

Kinetic scaffolding mediated by a phospholipase C-beta and Gq signaling complex. - T. Kendall Harden, Univ. of North Carolina

Synergistic regulation of phospholipase C β isoforms as a coincidence detector for GPCR activation. - Elliot Ross, Univ. of Texas Southwestern Med. Ctr.

Role for PLC β 1b in Gq driven cardiac hypertrophy. - Elizabeth Woodcock, Baker Medical Research Inst.

PLC ϵ as a localized signal integrator downstream of GPCRs and RTKs. - Alan V. Smrcka, Univ. of Rochester Sch. of Med.

TBD - Dianqing Wu, Yale Univ.

Pharmacology and therapeutic potential of histamine H3 and H4 receptor ligands

San Diego Convention Center, Room 3

9:30 am – 12:00 pm

Sponsored by the Divisions for Drug Discovery, Development & Regulatory Affairs; Molecular Pharmacology; Neuropharmacology; Behavioral Pharmacology; and Integrative Systems, Translational & Clinical Pharmacology

Chair: Robin L. Thurmond, Johnson & Johnson Pharmaceut. Res. & Develop., L.L.C.

Pharmacology of histamine receptors. - Rob Leurs, Vrije Univ. Fac. of Sci., Amsterdam

Therapeutic potential of histamine H3 receptor ligands. - Jean-Charles Schwartz, Bioprojet Biotech, France

Molecular and cell biology of the histamine H4 receptor. - Thomas Werfel, Hannover Med. Sch., Germany

Novel antihistamines that target the histamine H4 receptor. - Robin L. Thurmond, Johnson & Johnson Pharmaceut. Res. & Develop., L.L.C.

Neurophysiological correlates of stimulant treatment for ADHD in adolescents and adults

San Diego Convention Center, Room 4

9:30 am – 12:00 pm

Sponsored by the Divisions for Behavioral Pharmacology and Neuropharmacology

Chairs: Claire Advokat, Louisiana State Univ.

What do we know about the cognitive effects of stimulant drugs in adults? - Claire Advokat, Louisiana State Univ.

Chronic methylphenidate treatment in adolescent monkeys: effects on brain dopamine systems and drug reinforcement. - Linda J. Porrino, Wake Forest Univ. Sch. of Med.

TBD - William E. Pelham, Jr., Florida Intl. Univ.

TBD - James M. Swanson, Univ. of California, Irvine Sch. of Med.

Role of pharmacogenetics in oncology

San Diego Convention Center, Room 5A

9:30 am – 12:00 pm

Sponsored by the Divisions for Toxicology; Drug Metabolism; and Integrative Systems, Translational & Clinical Pharmacology

Chairs: E. Penni Black, Univ. of Kentucky and Hollie Swanson, Univ. of Kentucky Col. of Med.

Impact of CY2D6 polymorphisms on patient response to tamoxifen. - Matthew Goetz, Mayo Clinic

Utilizing gene expression signatures to predict response to targeted therapies in lung and colorectal cancer. - E. Penni Black

A personalized medicine case study in NSCLC: Crizotinib story. - Hakan Sakul, Pfizer

Activation of AMP-dependent kinase and treatment of lung cancers. - Richard Moran, Virginia Comm. Univ.

Experimental Biology 2012: Preliminary Program

Multi-target agents: The yin and yang of rational drug discovery

San Diego Convention Center, Room 5B

9:30 am – 12:00 pm

Sponsored by the Divisions for Neuropharmacology; Toxicology; Molecular Pharmacology; and Drug Discovery, Development & Regulatory Affairs

Chairs: Alan J. Cross, AstraZeneca and Michael W. Wood, AstraZeneca

Navigating the kinome. - Michal Vieth, Lilly Res. Labs.

When simple agonism is not enough: Emerging modalities of GPCR ligands. - Graeme Milligan, Univ. of Glasgow

Network pharmacology modeling in systems biology. - Andrew L. Hopkins, Univ. of Dundee, United Kingdom

Evaluation and analysis of a dense multifunctional psychiatric drug space. - Michael W. Wood, AstraZeneca Pharmaceuticals LP

Introduction; Summary discussion. - Alan J. Cross, AstraZeneca

Sunday, April 22 Afternoon Sessions

JULIUS AXELROD LECTURE

San Diego Convention Center, Room 2

2:00 pm – 3:00 pm

Elaine Sanders-Bush, Vanderbilt Univ. Sch. of Med.

From farm to pharm: A journey with serotonin.

JULIUS AXELROD SYMPOSIUM: Novel insights into the regulation of serotonin function

San Diego Convention Center, Room 2

3:00 pm – 5:30 pm

Chair: Elaine Sanders-Bush, Vanderbilt Univ. Sch. of Med.

Modulation of serotonin homeostasis by integrin signaling pathways. - Ana Carneiro, Vanderbilt Univ. Sch. of Med.

Allosteric regulation of serotonin 5-HT_{2C} receptor function. - Kathryn A. Cunningham, Univ. of Texas Med. Br., Galveston

Role of β -arrestins in agonist-directed serotonin 5-HT_{2A} receptor signaling in vivo - Laura Bohn, Scripps Res. Inst., Jupiter

The behavioral pharmacology of drugs of abuse and drug dependence: A tribute to Steve Holtzman and Bob Schuster

San Diego Convention Center, Room 3

3:00 pm – 5:30 pm

Sponsored by the Divisions for Behavioral Pharmacology; Drug Discovery, Development & Regulatory Affairs; and Neuropharmacology

Chair: Thomas J. Martin, Wake Forest Univ. Hlth. Sci.

Clinical challenges in the treatment of chronic pain. - Robert Dworkin, Univ. of Rochester Sch. of Med. and Dent.

Translating pain research from the laboratory to the clinic. - Jianren Mao, Massachusetts General Hosp.

The role of drug self-administration as a tool for preclinical pain research. - Thomas J. Martin, Wake Forest Univ. Hlth. Sci.

Experimental Biology 2012: Preliminary Program

Pain-depressed behaviors as novel tools for addressing analgesic efficacy in laboratory animals. - S. Stevens Negus, Virginia Commonwealth Univ.

Future directions and challenges in the development of novel therapies for pain. - Frank Porreca, Univ. of Arizona Col. of Med.

Role of nuclear receptors in lipid dysregulation and obesity-related diseases

San Diego Convention Center, Room 5A

3:00 pm – 5:30 pm

Sponsored by the Divisions for Drug Metabolism; Integrative Systems, Translational & Clinical Pharmacology; and Toxicology

Chairs: John Chiang, Northeastern Ohio Univ. Col. of Med. and Hollie Swanson, Univ. of Kentucky Col. of Med.

Introduction. - Hollie Swanson, Univ. of Kentucky Col. of Med.

PXR and CAR as therapeutic targets for obesity type 2 diabetes. - Wen Xie, Univ. of Pittsburgh Sch. of Pharm.

Bile acid activated receptors in regulating lipid and glucose metabolism. - Stefano Fiorucci, Univ. of Perugia, Italy

Tissue specific functions of the farnesoid X receptor in liver and intestine. - Grace Guo, Univ. of Kansas Med. Center

Impact of selective estrogen receptor beta ligands on obesity. - Ramesh Narayanan, GTx, Inc.

Emerging role of heme oxygenase in cardiovascular and metabolic diseases

San Diego Convention Center, Room 5B

3:00 pm – 5:30 pm

Sponsored by the Divisions for Cardiovascular Pharmacology and Integrative Systems, Translational & Clinical Pharmacology

Chairs: Nader G. Abraham, Univ. of Toledo

Heme oxygenase induced adiponectin upregulation in epicardial fat ameliorates ischemia-induced cardiac dysfunction. - Stephen J. Peterson, New York Med. Col.

Molecular regulation of heme oxygenase. - Anupam Agarwal, Univ. of Alabama-Birmingham

EET-agonist regulates mesenchymal stem cells-derived adipocytes through activation of heme oxygenase-1 (HO-1). - Nader G. Abraham, Univ. of Toledo

Heme oxygenase and blood pressure regulation. - David E. Stec, Univ. of Mississippi Med. Ctr.

Role of heme oxygenase and its metabolites in the regulation of cerebral vascular function. - Charles Leffler, Univ. of Tennessee Hlth. Sci. Ctr.

Adapting TBL techniques to teach pharmacology to graduate, professional and medical students

San Diego Marriott Marquis & Marina

3:00 pm – 5:30 pm

Sponsored by the Division of Pharmacology Education

Chair: R. Senthil Kumar, St. Matthew's Univ. Sch. of Med., Grand Cayman Islands

Revisiting concepts of team based learning (TBL). Addressing concerns. - R. Senthil Kumar, St Matthew's Univ. Sch. of Med., Grand Cayman Islands

Exploring the advances in technology to augment outcomes in TBL. - John Szarek, The Commonwealth Med. Col.

Use of TBL sessions in an introductory graduate pharmacology courses. - George Dunaway, Southern Illinois Univ. Sch. of Med.

Experimental Biology 2012: Preliminary Program

Monday, April 23 Morning Sessions

Location, location, location: The role of membrane microdomains in dopamine transporter function and trafficking

San Diego Convention Center, Room 2

9:30 am – 12:00 pm

Sponsored by the Divisions for Neuropharmacology and Molecular Pharmacology

Chairs: Habibeh Khoushbouei, Meharry Med. Col. and Haley Melikian, Univ. of Massachusetts Sch. of Med.

Relationship between DAT phosphorylation states and lipid raft localization. - Roxanne Vaughan, Univ. of North Dakota Sch. of Med. and Hlth. Sci.

A critical regulator of dopamine transporter lipid raft localization, PKC-mediated internalization and amphetamine-mediated DA efflux. - Ai Yamamoto, Columbia Univ. Med. Ctr.

The role for the neuronal GTPase, rin, in dopamine transporter microdomain localization and trafficking. - Haley Melikian, Univ. of Massachusetts Sch. of Med.

Membrane cholesterol modulates the outward facing conformation of the dopamine transporter and alters cocaine binding. - Susan Amara, Univ. of Pittsburgh Sch. of Med.

Membrane microdomain localization and trafficking of dopamine transporter coding variants associated with ADHD. - Randy Blakely, Vanderbilt Univ. Med. Ctr.

Cognitive enhancement to improve treatment outcome and quality of life associated with neuropathologies

San Diego Convention Center, Room 3

9:30 am – 12:00 pm

Sponsored by the Divisions for Behavioral Pharmacology; Neuropharmacology; and Toxicology

Chairs: Robert Gould, Wake Forest Univ. Sch. of Med. and Michael A. Nader, Wake Forest Univ. Sch. of Med.

Models of cognition and their predictive validity. - Robert Gould, Wake Forest Univ. Sch. of Med.

Cognitive deficits associated with cancer chemotherapy and potential pharmacological treatments. - Ellen Walker, Temple Univ. Sch. of Pharm.

Neurobiological, functional, and cognitive deficits associated with cocaine addiction. - Sam Deadwyler, Wake Forest Univ. Hlth. Sci.

Cognitive deficits in patients with Parkinson's disease. - Jay Schneider, Thomas Jefferson Univ., Jeff. Med. Col.

Nicotinic acetylcholine receptors as targets for cognitive enhancement. - Martin Sarter, Univ. of Michigan

Perivascular (p)fat: Pharmacology, physiology and (P)function

San Diego Convention Center, Room 4

9:30 am – 12:00 pm

Sponsored by the Divisions for Cardiovascular Pharmacology and Integrative Systems, Translational & Clinical Pharmacology

Chairs: Ann Dorrance, Michigan State Univ. and Stephanie Watts, Michigan State Univ.

Introduction. - Ann Dorrance, Michigan State Univ.

Primer on fat. - Patrick Seale, Univ. of Pennsylvania Sch. of Med.

Paracrine role for PVAT in regulation of arterial tone. - Maik Gollasch, LSU Hlth. Sci. Ctr., New Orleans

Inflammation and PVAT. - Lisa Cassis, Univ. of Kentucky Col. of Med.

Role of indoleamine-dioxygenase in function of PVAT. - Stephanie Watts, Michigan State Univ.

PVAT as a source of vasoconstrictors: Focus on reactive oxygen species. - Robert M.K.W. Lee, McMaster Univ., Ontario

TBD - Theodora Szasz, Georgia Hlth. Sci. Univ.

Experimental Biology 2012: Preliminary Program

The real world of therapeutic drugs: Bench to boardroom, the bedside and beyond

San Diego Convention Center, Room 5A

9:30 am – 12:00 pm

Sponsored by the Divisions for Pharmacology Education and Behavioral Pharmacology

Chair: P.K. Rangachari, McMaster Univ., Ontario

Framing interdisciplinary courses: Promises and pitfalls - P.K. Rangachari, McMaster Univ., Ontario

Tomorrow's prescribers: How should we train them, assess them and support them? - Simon Maxwell, Univ. of Edinburgh

That's a great drug, but who's paying for it, why and how much? – Beyond the do no harm paradigm - David Macarios, Amgen, Inc.

Discussing the benefit & risks of drug therapies: interpreting drug information for healthcare providers and patients - Sandra Milligan, Amgen, Inc.

Social pharmacology: A new topic in pharmacology - J.L. Montastruc, Univ. Paul Sabatier, Toulouse

Drug Discovery, Development and Regulatory Affairs Symposium: Mitochondrial dysfunction in human disease

San Diego Convention Center, Room 5B

9:30 am – 12:00 pm

Chairs: Robert E. Davis, 3-D Pharmaceut. Consultants and Michael Williams, Northwestern Univ.

Monday, April 23 Afternoon Sessions

P.B. Dews Award Lecture in Behavioral Pharmacology

San Diego Convention Center, Room 2

2:00 pm – 3:00 pm

B.B Brodie Award Lecture in Drug Metabolism

San Diego Convention Center, Room 3

2:00 pm – 3:00 pm

Behavioral Pharmacology Division Symposium: The behavioral pharmacology of drugs of abuse and drug dependence: A tribute to Steve Holtzman and Bob Schuster

San Diego Convention Center, Room 2

3:00 pm – 5:30 pm

Chairs: Linda Dykstra, Univ. of North Carolina at Chapel Hill and Carol Paronis, Northeastern Univ.

Lessons learned from two of the best. - Linda Dykstra, Univ. of North Carolina at Chapel Hill

TBD - Carol Paronis, Northeastern Univ.

TBD - Steve Goldberg, Johns Hopkins Univ. Bayview Med. Ctr.

Vive la difference: Sex differences in the behavioral pharmacology of opioids. - Rebecca Craft, Washington State Univ.

TBD - Mark Greenwald, Wayne State Univ. Sch. of Med.

Drug Metabolism Division James Gillette Award and Platform Session

San Diego Convention Center, Room 3

3:00 pm – 5:30 pm

Experimental Biology 2012: Preliminary Program

Molecular Pharmacology Division Postdoctoral Award Finalists

San Diego Convention Center, Room 4

3:00 pm – 5:30 pm

Integrative Systems, Translational and Clinical Pharmacology Division Young Investigator Awards Platform Session

San Diego Convention Center, Room 5A

3:00 pm – 5:30 pm

Pharmacology Education Division Programming

San Diego Convention Center, Room 5B

3:00 pm – 5:30 pm

Tuesday, April 24 Morning Sessions

J.J. Abel Lecture

San Diego Convention Center, Room 2

8:30 am – 9:30 am

Membrane rafts in endothelial signaling

San Diego Convention Center, Room 2

9:30 am – 12:00 pm

Sponsored by the Divisions for Cardiovascular Pharmacology and Integrative Systems, Translational & Clinical Pharmacology

Chairs: Irena Levitan, Univ. of Illinois at Chicago and Pin-Lan Li, Virginia Commonwealth Univ., Med. Col. of Virginia

Defining membrane raft by proximity imaging. - Michael Goligorsky, New York Med. Col.

The role of lipid rafts in endothelial redox signaling. - Pin-Lan Li, Virginia Commonwealth Univ., Med. Col. of Virginia

Paradoxical effects of modified low-density lipoproteins on endothelial membrane rafts. - Irena Levitan, Univ. of Illinois at Chicago

Role of membrane rafts and caveolae in the sensitivity of endothelial cells to hemodynamic forces. - Victor Rizzo, Temple Univ. Sch. of Med.

Membrane rafts in endothelial function of the cerebral circulation. - Thomas P. Davis, Univ. of Arizona

Toll-like receptors in neuroplasticity and disease

San Diego Convention Center, Room 3

9:30 am – 12:00 pm

Sponsored by the Divisions for Molecular Pharmacology; Neuropharmacology; and Integrative Systems, Translational & Clinical Pharmacology

Chair: Mark Mattson, NIA, NIH

Molecular basis of TLR signaling. - Luke O'Neil, Trinity Col. Dublin, Ireland

Developmental reprogramming of TLR signaling. - Quentin J. Pittman, Univ. of Calgary

Roles for TLRs in the regulation of behavior. - Eitan Okun, Bar Ilan Univ, Israel/NIA, NIH

Roles for TLRs in ischemic stroke and Alzheimer's disease. - Mark Mattson, NIA, NIH

Mobilizing innate immune attack on brain amyloidosis. - Thomas Wisniewski, New York Univ. Sch. of Med.

Experimental Biology 2012: Preliminary Program

The Nociceptin/orphanin FQ-NOP receptor system: Neurobiology, pharmacology and therapeutic opportunities

San Diego Convention Center, Room 4

9:30 am – 12:00 pm

Sponsored by the Divisions for Neuropharmacology and Behavioral Pharmacology

Chair: Girolamo Calo, Univ. of Ferrara, Italy

Milestones in nociceptin/orphanin FQ research. - Rainer Reinscheid, Univ. of California Irvine

The nociceptin/orphanin FQ-NOP receptor system as a target for treating addiction. - Niall P. Murphy, UCLA

Nociceptin/orphanin FQ receptors as candidate for innovative antidepressant drugs. - Elaine Cristina Gavioli, Federal Univ. of Rio Grande do Norte, Brazil

Therapeutic potential of NOP agonists as analgesics without abuse liability. - Mei Chuan Ko, Univ. of Michigan Med. Sch.

NOP receptor ligands in parkinsonism and levodopa-induced dyskinesia. - Michele Morari, Univ. of Ferrara, Italy

From structure to knockout: Common themes between CYPs and ABC transporters

San Diego Convention Center, Room 5A

9:30 am – 12:00 pm

Sponsored by the Divisions for Toxicology; Drug Metabolism; and Drug Discovery, Development & Regulatory Affairs; and Neuropharmacology

Chair: Mary Vore, Univ. of Kentucky

Structure of a high-affinity drug-binding conformation of P-glycoprotein. - Steve Aller, Univ. of Alabama at Birmingham

The role of CYP450 structure in drug development and therapeutics. - Eric F. Johnson, Scripps Res. Inst.

Role of ABC transporters in ADME-- Translation from knockout mice to clinics. - Yuichi Sugiyama, Univ. of Tokyo Sch. of Pharmaceut. Sci.

Humanized mouse lines and their application for prediction of human drug metabolism and toxicological risk assessment. - Frank Gonzales, NCI, NIH

Models of affective disorders and pharmacological interventions: The influence of etiology in treatment approach

San Diego Convention Center, Room 5B

9:30 am – 12:00 pm

Sponsored by the Divisions for Behavioral Pharmacology; Drug Metabolism; and Drug Discovery, Development & Regulatory Affairs; and Neuropharmacology

Chairs: Michael A. Nader, Wake Forest Univ. Sch. of Med. and Leonard Howell, Emory Univ. Sch. of Med.

Individual differences in response to treatments. - Charles O'Brien, Univ. of Pennsylvania Sch. of Med.

Cross-species tests of potential predictors of responders to antipsychotic treatments. - Mark Geyer, UCSD

The use of rodent models of cocaine abuse to study the interactions of serotonin receptors and anxiety-like behaviors. - Kathryn Cunningham, Univ. of Texas Med. Branch

The relationship between gender and psychotic symptoms in drug abusers. - Richard De La Garza II, Baylor Col. of Med.

Drug x host x environment interactions in nonhuman primate models of cocaine abuse. - Michael A. Nader, Wake Forest Univ. Sch. of Med.

Experimental Biology 2012: Preliminary Program

Tuesday, April 24 Afternoon Sessions

Cardiovascular Pharmacology Division Trainee Showcase

San Diego Convention Center, Room 2

2:30 pm – 4:30 pm

Neuropharmacology Division Postdoctoral Scientist Award Finalists

San Diego Convention Center, Room 3

3:00 pm – 5:30 pm

Regulation of TRP channels

San Diego Convention Center, Room 4

3:00 pm – 5:30 pm

Sponsored by the Divisions for Molecular Pharmacology and Neuropharmacology

Chair: Michael Zhu, Univ. of Texas Hlth Sci. Ctr. at Houston

Physiological functions of TRP channels as revealed from TRP knockout mice. - Veit Flockerzi, Univ. of Saarland, Germany

Functional regulation and physiological roles of TRPM channels. - Andrea Fleig, Queen's Med. Ctr. And Univ. of Hawai'i at Manoa

Phosphoinositide regulation of TRP channels. - Tibor Rohacs, Univ. of Med. and Dent. of New Jersey, New Jersey Med. Sch.

Function and regulation of intracellularly localized TRPML channels. - Haoxing Xu, Univ. of Michigan

Toxicology Division Symposium: The utilization of genetically modified mice to determine mechanisms of toxicity

San Diego Convention Center, Room 5A

3:00 pm – 5:30 pm

Chairs: Jack A. Hinson, Univ. of Arkansas for Med. Sci.

Targeting PI3K for human diseases

San Diego Convention Center, Room 5B

3:00 pm – 5:30 pm

Sponsored by the Divisions for Drug Metabolism; and Drug Discovery, Development & Regulatory Affairs; Toxicology; and Molecular Pharmacology

Chair: Tadimeti S. Rao, Johnson and Johnson, PRD

PI3K structure, function, regulation in disease & drug targeting. - David Fruman, Univ. of California, Irvine

Regulation of B cell differentiation and transformation by the phosphoinositide 3-kinase (PI3K) pathway. - Robert Riker, Sanford-Burnham Med. Res. Ctr.

Targeting the PI3K pathway for immune-mediated diseases. - Christian Rommel, Intellikine, Inc.

PI3K δ and steroid resistance in airway inflammation-mechanisms and opportunities. - Kazuhiro Ito, Imperial College London

Paul Vanhoutte Award Lecture in Cardiovascular Pharmacology

San Diego Convention Center, Room 2

4:30 pm – 5:30 pm

Experimental Biology 2012: Preliminary Program

Wed, April 25 Morning Sessions

RAY FULLER LECTURE

San Diego Convention Center, Room 2

8:30 am – 9:30 pm

Mark Bear, Howard Hughes Med. Inst.

RAY FULLER SYMPOSIUM: Progress toward autism drug discovery

San Diego Convention Center, Room 2

9:30 am – 12:00 pm

Chair: Mark Bear, Howard Hughes Med. Inst.

Protein-protein interaction (PPI) interfaces as therapeutic targets: promises and challenges

San Diego Convention Center, Room 3

9:30 am – 12:00 pm

Sponsored by the Divisions for Molecular Pharmacology; Drug Discovery, Development & Regulatory Affairs; and Toxicology

Chair: Haiyan Fu, Emory Univ.

Targeting PPI interfaces in drug discovery: Key attributes of successful compounds. - David C. Fry, Hoffmann-La Roche, Inc.

Fragment-based drug discovery approach for challenging targets: PPI. - Michelle Arkin, UCSF

Computational scaffold design approach for the discovery of PPI inhibitors. - Shaomeng Wang, Univ. of Michigan

Targeting PPIs to interrogate survival signaling network in cancer. - Haiyan Fu, Emory Univ.

NADPH-CYP450 oxidoreductase: Roles in physiology, pharmacology, and toxicology

San Diego Convention Center, Room 4

9:30 am – 12:00 pm

Sponsored by the Divisions for Drug Metabolism; Drug Discovery, Development & Regulatory Affairs; and Toxicology

Chairs: Todd D. Porter, Univ. of Kentucky Col. of Pharm. and David S. Riddick, Univ. of Toronto

Introduction. - David S. Riddick, Univ. of Toronto

Engineered mouse models harboring null or hypomorphic alleles for NADPH-cytochrome P450 oxidoreductase.

Xinxin Ding, New York State Department of Health

Mouse models for deciphering the roles of NADPH-cytochrome P450 oxidoreductase and cytochrome b5 in physiology, drug metabolism and cancer. - C. Roland Wolf, Univ. of Dundee, Ninewells Hosp. and Med. Sch., UK

Replication of the hepatic lipidosis seen in hepatic POR-null mice in a hepatoma cell culture model: A role for FXR? - Todd D. Porter, Univ. of Kentucky Col. of Pharm.

Clinical, structural and functional implications of mutations and polymorphisms in human NADPH-cytochrome P450 oxidoreductase. - Amit V. Pandey, Univ. of Bern, Switzerland

Opioid-induced bowel dysfunction

San Diego Convention Center, Room 5A

9:30 am – 12:00 pm

Sponsored by the Divisions for Integrative Systems, Translational & Clinical Pharmacology; Toxicology; and Neuropharmacology

Chair: Hamid I. Akbarali, Virginia Commonwealth Univ.

Experimental Biology 2012: Preliminary Program

Opiate receptor function in enteric neurons. - Catia Sternini, UCLA Sch. of Med.

Peripheral opiate antagonists- current usage in treating OBD. - Richard Mangano, Adolor Corp.

Opioid tolerance and bowel dysfunction. - Hamid I. Akbarali, Virginia Commonwealth Univ.

Mu opioid receptor biased ligands: Delivering powerful analgesia and minimizing side effects. - Scott DeWire, Trevana, Inc.

Narcotic bowel syndrome. - Doug Drossman, Univ. of North Carolina Sch. of Med.

Wed, April 25 Afternoon Sessions

Discovery of protein kinase inhibitors for CNS disorders: Opening new avenues for unmet needs

San Diego Convention Center, Room 3

3:00 pm – 5:30 pm

Sponsored by the Divisions for Neuropharmacology; Behavioral Pharmacology; and Molecular Pharmacology

Chairs: Margaret Gnegy, Univ. of Michigan Sch. of Med. and Daniel M. Watterson, Northwestern Univ. Feinberg Sch. of Med.

TBD - Daniel M. Watterson, Northwestern Univ. Feinberg Sch. of Med.

Protein kinase inhibitors as therapeutics for Neurodegenerative diseases: cdk5 as a case study - Marcie Glicksman, Harvard Med. Sch.

TBD - Vicki Nienaber, Zenobia Therapeutics, Inc.

TBD - Rong Chen, Univ. of Michigan Med. Sch.

Steroid signaling via G protein-coupled receptors

San Diego Convention Center, Room 4

3:00 pm – 5:30 pm

Sponsored by the Divisions for Molecular Pharmacology; Integrative Systems, Translational & Clinical Pharmacology; Neuropharmacology; Toxicology; and Cardiovascular Pharmacology

Chair: Eric E. Prossnitz, Univ. of New Mexico

What has the development of selective agonists/antagonists told us about the function of GPER? -

Eric E. Prossnitz, Univ. of New Mexico

GPER signaling via fibronectin assembly and integrin activation in cancer cells. - Edward Filardo, Brown Univ. Sch. of Med.

Actions of GPER on the vasculature. - Matthias Barton, Univ. of Zurich

Clinical pipeline of marine pharmaceuticals: The odyssey continues

San Diego Convention Center, Room 5A

3:00 pm – 5:30 pm

Sponsored by the Division for Drug Discovery, Development & Regulatory Affairs; Toxicology

Chairs: Keith B. Glaser, Abbott Laboratories and Alejandro M.S. Mayer, Midwestern Univ.

Overview of the current marine clinical pharmaceutical pipeline. - Keith B. Glaser, Abbott Laboratories

Discovery of Eribulin mesylate (Halaven®): From marine natural product to FDA approved drug. - Melvin Yu, EISAI Pharmaceuticals

Discovery and development of the antibody drug conjugate, SGN-35 (anti-CD30 conjugated to the dolastatin analog auristatin) in Phase III for cancer. - Peter Senter, Seattle Genetics

Discovery and development of the marine anticancer compounds Plinabulin (NPI-2358) in Phase II, and Marizomib (Salinosporamide A; NPI-0052) in Phase I. - G. Kenneth Lloyd, Nereus Pharmaceuticals, Inc.

Overview of the current preclinical marine pharmacology pipeline. - Alejandro M.S. Mayer, Midwestern Univ.

Experimental Biology 2012: Preliminary Program

Applications of biomaterials and drug delivery systems for enhancing tissue engineering and regeneration

San Diego Convention Center, Room 5B

3:00 pm – 5:30 pm

Sponsored by the Division for Integrative Systems, Translational & Clinical Pharmacology

Chairs: Karl-Erik Andersson, Wake Forest Univ. Hlth Sci. and George J. Christ, Wake Forest Univ. Hlth. Sci.

Important Dates:

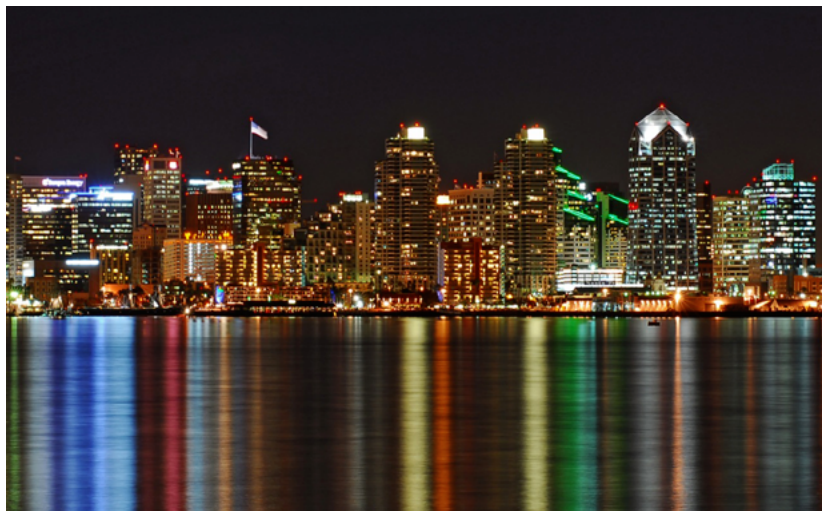
November 8, 2011 - Abstract Submission Deadline

February 23, 2012 - Early Registration Discount Deadline

March 23, 2012 - Hotel Reservation Deadline

To register for Experimental Biology 2012, visit www.aspet.org/EB2012

or www.experimentalbiology.org.



Clockwise from top left: San Diego Skyline at night, photo by wikitrave.org; Horton Plaza has over 130 shops for all tastes, photo by heliphoto.net; a popular tourist destination, Ocean Beach Pier, photo by 101things.com; San Diego Zoo, photo by sandiegozoo.org; one of plenty of relaxing beaches in San Diego to enjoy, photo by sandiego.org; San Diego is home to a number of beautiful golf courses, photo by Vocus, Inc.

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Chapter News

Mid-Atlantic Pharmacology Society
2011 Annual Meeting Program

Thomas Jefferson University
Philadelphia, PA
October 27, 2011

Morning Session

- 8:00 - 8:15 Registration & Poster Setup
Mezzanine level, Jefferson Alumni Hall
- 8:15 - 10:15 Poster presentations and judging;
coffee and bagels; Registration
Mezzanine level, Jefferson Alumni Hall
- 10:15 - 10:25 MAPS Welcome: Carol L. Beck, PhD,
President, MAPS
Brent Auditorium, Jefferson Alumni Hall
- 10:25 - 11:00 Donna Woulfe, PhD, University of
Delaware: "Akt and GSK3 Regulation of
Platelet Function"
- 11:00 - 11:35 Martin Ogletree, PhD, Merck Research
Labs: "Benefits and Risks with Novel Oral
Antithrombotics"
- 11:35 - 11:45 Student/Trainee oral presentation #1
- 11:45-12:00 George B. Koelle Award Presentation
- 12:00 - 1:00 Lunch, poster viewing
Mezzanine level, Jefferson Alumni Hall

Afternoon Session

- 1:00 - 1:05 Introduction of Keynote Speaker
Brent Auditorium, Jefferson Alumni Hall
- 1:05 - 2:05 Keynote Speaker: Barry Coller, MD,
Rockefeller University: "From the bedside
to Abciximab to the Future"
- 2:05 - 2:40 Jon Violin, PhD, Trevena, Inc.: "Translating
GPCR Ligand Bias into a Novel Therapy for
Acute Heart Failure"
- 2:40 - 3:15 Colin Macphee, PhD, GlaxoSmithKline:
"Lp-PLA2 Inhibition: From an Idea to
Phase III"
- 3:15 - 3:25 Student/Trainee oral presentation #2
- 3:25 - 4:30 Poster Award Ceremony and Networking
Reception
Hamilton Building, 4th Floor lobby &
terrace

For additional information & abstract submission form:
www.aspet.org/MAPSAnnualMeeting

Journals by Rich Dodenhoff

Morgan and Traynelis Named Editors

Following a search that began in January, the Board of Publications Trustees Executive Committee selected Dr. Edward T. Morgan to succeed Dr. Eric F. Johnson as the next editor of *Drug Metabolism and Disposition* and Dr. Stephen F. Traynelis to succeed to Dr. P. Jeffrey Conn as the next editor of *Molecular Pharmacology*. By the end of 2011, Dr. Johnson and Dr. Conn will have served the maximum six-year term allowed for journal editors. The search process began early this year to get sufficient input from ASPET's members and to allow for a smooth transition. Dr. Morgan and Dr. Traynelis will begin handling new manuscript submissions in December and will fully assume their positions on January 1, 2012. Information about the new editors follows. There were many excellent nominees for these important positions, and the BPT Executive Committee appreciates the candidates' willingness to be considered.

Dr. Edward T. Morgan



Dr. Morgan received the B.Sc. degree with Upper Second Class Honours in 1976 and the Ph.D. degree in 1979, both in pharmacology and from the University of Glasgow, Scotland. Dr. Morgan's doctoral thesis was entitled "Ethanol: Its effects on hepatic microsomal drug metabolism." His advisors were Dr. Garth Powis and Dr. Paul Skett.

In 1979-1982, Dr. Morgan was a Postdoctoral Scholar in the Department of Biological Chemistry at the University of Michigan, Ann Arbor, with Dr. Minor J. Coon. He then became a Visiting Scientist Fellow in the Department of Medical Nutrition at the Karolinska Institute, Stockholm, Sweden, with Prof. Jan-Åke Gustafsson from 1982 to 1986.

Since 1986, Dr. Morgan has been a faculty member in the Department of Pharmacology at Emory University, Atlanta, GA, holding the positions of Assistant Professor (1986-1992), Associate Professor (1992-1999), and Professor (since 1999). Since 1995, he has also been a member of the Winship Cancer Institute, Drug Discovery and

Development Division, at Emory. His research interests include regulation of Cytochrome P450 and other drug metabolizing enzymes and nitric oxide signaling.

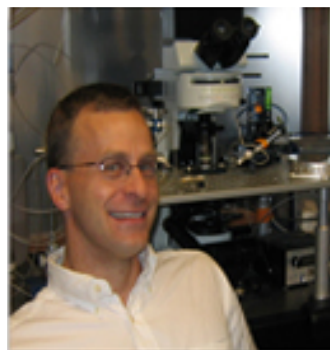
Dr. Morgan has been an active member of ASPET since 1991. His work for the Society includes organizing or co-organizing six symposia for ASPET's annual meetings; serving on the Program Committee from 1998-2001; and being Chair-Elect, Chair, and Past-Chair of the Drug Metabolism and Disposition Division during 1998-2001. He was also a Councilor for that Division from 2003-2006. Dr. Morgan served on the Board of Publications Trustees from 2005-2010. He was a member of the Julius Axelrod Committee (2005-2010) and a member of Systems and Integrative Pharmacology Division's Executive Committee (2007-2009). In July of this year, he began his term as ASPET's Secretary/Treasurer-Elect.

He has been a member of the Exhibits Committee and currently serves on the Scientific Affairs Committee of the International Society for the Study of Xenobiotics.

Dr. Morgan's editorial service to ASPET includes serving as an Associate Editor for *Molecular Pharmacology* from 1995-1999 and serving on the *DMD* editorial board since 1994. He also serves currently on the editorial board *The Biochemical Journal*. He has been an ad hoc reviewer for over 20 other journals.

Prospective *DMD* authors should note that the manuscript submission process will not change with the change in editors. All submissions will continue to be handled through the journal's online manuscript system (submit-dmd.aspetjournals.org).

DMD began publication in 1973. Dr. Morgan will be the journal's sixth editor after Kenneth C. Leibman, Vincent G. Zannoni, Raymond F. Novak, James R. Halpert, and Eric F. Johnson.



Dr. Stephen F. Traynelis

Dr. Traynelis received the B.Sc. degree in chemistry from West Virginia University (summa cum laude) in 1984 and the Ph.D. degree in pharmacology from the University of North Carolina, Chapel Hill, in 1988. His thesis was titled "Potassium-induced spontaneous electrographic seizures in the rat hippocampal slice," and his advisor was Dr. Ray Dingledine.

Journals by Rich Dodenhoff

Editors continued...

During 1989-1991, Dr. Traynelis conducted postdoctoral research with Prof. Stuart Cull-Candy in the Department of Pharmacology at University College London, London, UK. From 1992 to 1994, he did postdoctoral research at the Salk Institute, La Jolla, CA, with Prof. Stephen Heinemann, Director of the Molecular Neurobiology Laboratory.

Since 1994, Dr. Traynelis has been on the faculty of Emory University's Department of Pharmacology in Atlanta, GA, holding the positions of Assistant Professor (1994-2000), Associate Professor (2000-2006), and Professor (since 2006).

His laboratory studies the basic mechanisms underlying excitatory synaptic transmission with a focus on the postsynaptic glutamate receptor. Ongoing experiments use electrophysiological approaches and molecular techniques to probe in detail the nature of glutamate receptor structure, regulation, and function. In addition, Dr. Traynelis' laboratory has been working for over ten years to develop new therapeutic strategies to regulate glutamate receptor function, which involves active collaboration with the Department of Chemistry to synthesize novel ligands that can be used to define the structure-function relationship for new regulatory sites. Dr. Traynelis also has active programs involving G-protein-coupled receptor function in non-neuronal cells to explore their regulation of excitatory synaptic transmission and the CNS response

to injury. Dr. Traynelis is a coinventor on seven issued or pending patents and a cofounder of NeurOp, Inc., an Atlanta-based CNS drug discovery company.

Actively involved on grant review boards, Dr. Traynelis has served the NIH on numerous grant programs and study sections, the Singapore Biomedical Research Council, the Wellcome Trust, the UK Medical Research Council, the United States-Israel Binational Science Foundation, the National Science Foundation, the Michael J. Fox Foundation, and others.

He currently serves on the editorial boards of *Open Pharmacology Journal* and *Molecular Brain*. He served on the *Molecular Pharmacology* editorial board for several years before being named an Associate Editor in 2008. He has served as a reviewer for over 30 other journals.

Dr. Traynelis has been an ASPET member since 1997. He is also a member of the American Association for the Advancement of Science, the Biophysical Society, and the Society for Neuroscience.

Prospective *Molecular Pharmacology* authors should note that the manuscript submission process will not change with the change in editors. All submissions will continue to be handled through the journal's online manuscript system (submit-molpharm.aspetjournals.org).

Molecular Pharmacology began publication in 1965 under Dr. Avram Goldstein. Dr. Traynelis will be the journal's thirteenth editor following Paul Talalay, Steven E. Mayer, George I. Drummond, Norman Kirshner, Joel G. Hardman, William A. Catterall, T. Kendall Harden, Raymond Dingledine, Joan Heller Brown, Paul Insel, and P. Jeffrey Conn.

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Journals by Rich Dodenhoff

and the island of Réunion in the Indian Ocean, among others.

As with the desktop version of ASPET's journals, all content published from 1997 up until the last 12 months is freely accessible. ASPET members can access current issues and pre-1997 content using the online journal subscription included with their membership. A member subscription must be activated to use the mobile version. Contact info@aspet.org for help activating a member subscription.

Mobile Version Gaining Viewers

The mobile version of each ASPET journal was launched on June 23. The mobile version is optimized for small screens such as those on smart phones, and it works on all mobile devices. After one month, the number of hits to the sites ranged from 428 for *Molecular Pharmacology* to 1,455 for *JPET*. Usage in the second month grew for all titles by 33-50%.

The geographic distribution of viewers includes 57 countries. Quite a few have no ASPET subscriptions and no ASPET members. Mobile devices are more readily available than desktop computers in many developing countries. The mobile version of ASPET's journals seems to be facilitating wide distribution of the Society's research and review articles. Most viewers have been from the US, UK, Canada, Australia, Japan, and European countries but also represented are Nepal, Sudan, Indonesia, Bangladesh,

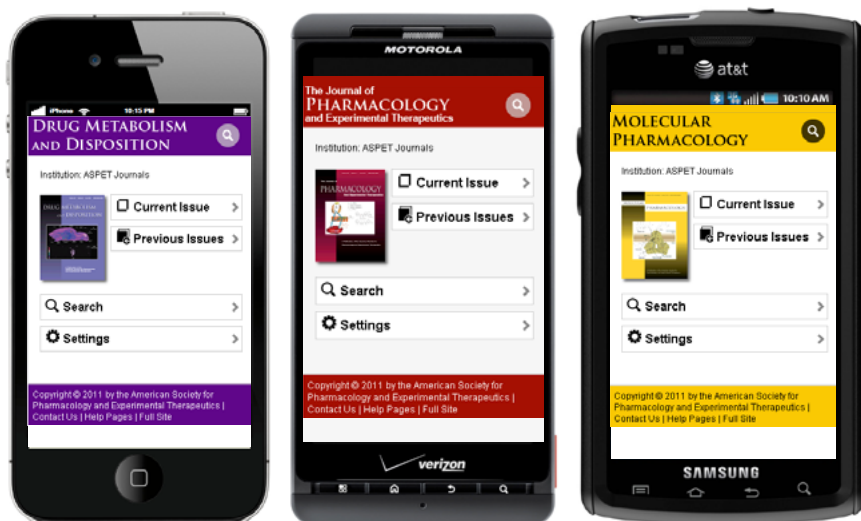
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Public Affairs by Jim Bernstein

Passage of the Budget Control Act of 2011 ended the impasse over raising the nation's debt ceiling. The debt ceiling deal will cap discretionary spending levels (and reduce spending by \$900 billion-\$1 trillion) in FY 2012 and FY 2013 at roughly the same level as FY 2011. While providing little room for growing programs, that is far better than earlier Congressional deliberations to roll back spending to their FY 2008 levels. Members of Congress return to Washington after Labor Day and the major legislative battle will be to arrive at an agreement that substantially reduces the nation's budget deficit.

Although the Budget Control Act sets discretionary spending limits for FY 2012, which begins October 1, the House has already passed a budget resolution with discretionary spending levels about \$24 billion less than mandated by the Budget Control Act. So House Republican leaders will now have its rank and file Members vote on the higher spending level proscribed by the Budget Control Act. Six appropriations bills have already been passed by the House, but there has been no action in the Senate. The Labor/HHS appropriations subcommittee that funds NIH has not yet marked up its spending bill.

With passage of the Budget Control Act, Senate appropriators will now work from the Act's spending level cap. But the House will still need to resolve the difference between the House-passed bill and the more favorable Budget Control Act limit. Then, the House bill will be reconciled by a conference committee between the House and Senate.

But it is the \$24 billion in "extra" spending levels in the Budget Act compared to the House passed figure that could be the difference in allowing some programs, like NIH, to receive a marginal increase or avoid a cut in FY 2012. How the \$24 billion will be allocated among all spending bills is the question. It is possible that the Senate Labor/HHS subcommittee could receive a more generous allocation than the House. This could potentially allow the NIH to receive more funding in FY 2012 than we might have expected. The House Labor/HHS subcommittee allocation has already been reduced by \$18 billion. The House has not stated if they will increase the Labor/HHS allocation as a result of the "extra" \$24 billion from the Budget Control Act. With more money in the subcommittee's allocation, the greater chance there is that NIH will fare better.

FY 2012 begins October 1. There is little time for Congress to finish remaining spending bills before the new fiscal year begins. A repeat of last year's series of Continuing Resolutions (CR), funding government operations at set levels for a set time remains possible. However, because the Budget Control Act provides overall limits for discretionary spending, that might make for a smoother and quicker end to the FY 2012 appropriations process. Another possible outcome is an "omnibus" spending package that combines the FY 2012 appropriations bills in one large piece of legislation.

Another part of the Budget Act agreement was the formation of a special Joint Committee on Deficit Reduction. The bipartisan group that was named is tasked to find an additional \$1.5 trillion in budget cuts over a decade. If the Joint Committee fails to identify those cuts by Thanksgiving, automatic across-the-board cuts will be triggered. Should that occur, the NIH and other federal science agencies will likely be hit hard as it would not be possible to avoid mandated cuts.

ASPET co-signed a letter (see following page) requesting that appropriators support increased funding for NIH as a "critical national priority in FY 2012." ASPET and other members of the biomedical science community must continue to make the case to support funding for the NIH in FY 2012.

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THE AD HOC GROUP FOR MEDICAL RESEARCH

August 9, 2011

The Honorable Dennis Rehberg
Chair
Subcommittee on Labor-HHS-Education
Committee on Appropriations
United States House of Representatives
Washington, DC 20515

The Honorable Rosa DeLauro
Ranking Member
Subcommittee on Labor-HHS-Education
Committee on Appropriations
United States House of Representatives
Washington, DC 20515

Dear Chairman Rehberg and Ranking Member DeLauro:

The 214 undersigned members of the Ad Hoc Group for Medical Research, a coalition of patient and voluntary health groups, medical and scientific societies, academic and research organizations, and industry, write to respectfully request that the National Institutes of Health (NIH) be recognized as a critical national priority in the FY 2012 Labor-HHS-Education Appropriations bill.

The foundation of scientific knowledge built through NIH-funded research across the country drives medical innovation that improves health and quality of life through new and better diagnostics, improved prevention strategies, and more effective treatments.

Further, NIH-supported research contributes to the nation's economic strength by catalyzing private sector growth and creating skilled, high-paying jobs; new products and industries; and improved technologies.

In this challenging budget environment, we recognize the painful decisions that must be made to secure the nation's fiscal stability. However, it is imperative that such efforts recognize the federal role in promoting the prosperity and well-being of the American people.

Sincerely,

- Academic Pediatric Association
Academy of Radiology Research
AIDS Action Baltimore
AIDS Alliance for Children, Youth & Families
The AIDS Institute
Albert Einstein College of Medicine
Alliance for Aging Research
Alpha-1 Association
Alpha-1 Foundation
Alzheimer's Association
amfAR, The Foundation for AIDS Research
American Academy of Pediatrics
American Association for Cancer Research
American Association for Dental Research
American Association for the Study of Liver Diseases
American Association of Anatomists
American Association of Colleges of Nursing
American Association of Immunologists
American Association of Neurological Surgeons and Congress of Neurological Surgeons
American Association of Orthopaedic Surgeons
American Brain Coalition
American Cancer Society Cancer Action Network
American Chemical Society
American College of Radiology (ACR)
American College of Rheumatology
The American Dental Education Association
American Diabetes Association
American Gastroenterological Association
American Heart Association
American Liver Foundation
American Lung Association
American Pediatric Society
American Psychiatric Association
American Psychological Association
American Psychosomatic Society
American Physiological Society
American Society for Bone and Mineral Research
American Society for Cell Biology
American Society for Gastrointestinal Endoscopy
American Society for Microbiology
American Society for Pharmacology & Experimental Therapeutics
American Society for Reproductive Medicine
American Society of Clinical Oncology
American Society of Hematology
American Society of Human Genetics
American Society of Pediatric Nephrology

- American Society of Transplantation
American Sociological Association
American Statistical Association
American Thoracic Society
American Tinnitus Association
American Uroynecologic Society
Associated Medical Schools of New York (AMSNY)
Association for Clinical Research Training
Association for Patient-Oriented Research
Association for Psychological Science
Association for Research in Vision and Ophthalmology
Association of Academic Health Sciences Libraries
Association of American Cancer Institutes
Association of American Geographers
Association of American Medical Colleges
Association of American Universities
Association of Independent Research Institutes
Association of Medical School Pediatric Department Chairs
Association of Minority Health Professions Schools
Association of Population Centers
Association of Public and Land-grant Universities (APLU)
Association of Schools of Public Health
Asthma and Allergy Foundation of America
AVAC: Global Advocacy for HIV Prevention
Baylor College of Medicine
Beth Israel Deaconess Medical Center in Boston
Biotechnology Industry Organization (BIO)
Biophysical Society
Brown University
Case Western Reserve University School of Medicine
Cedars-Sinai Medical Center
Charles Drew University
The Children's Hospital of Philadelphia
Christopher & Dana Reeve Foundation
Cleveland Clinic Lerner Research Institute
Clinical Research Forum
City of Hope
Coalition for Imaging and Bioengineering Research
Coalition for the Advancement of Health Through Behavioral and Social Sciences Research (CAHT-BSSR)
Coalition for Health Services Research
Coalition for the Life Sciences
Coalition of Urban Serving Universities
Coalition to Promote Research (CPR)
Columbia University
Conference of Boston Teaching Hospitals

- Consortium of Academic Health Centers for Integrative Medicine
Consortium of Social Science Associations (COSSA)
COPD Foundation
Cooley's Anemia Foundation
The Cooper Medical School of Rowan University
Cornell University
Crohn's and Colitis Foundation of America
Cystic Fibrosis Foundation
Digestive Disease National Coalition
Duke University School of Medicine
Dystonia Medical Research Foundation
Emory University
The Endocrine Society
FasterCures
Federation of American Societies for Experimental Biology
Federation of Associations in Behavioral and Brain Sciences (FABBS)
Federation of Pediatric Organizations
Friends of Cancer Research
Georgia Health Sciences University
Health Sciences South Carolina
Heart Rhythm Society
Hepatitis B Foundation
HIV Medicine Association
Howard University Health Sciences
Indiana University
Infectious Diseases Society of America
International Foundation for Functional Gastrointestinal Disorders
Interstitial Cystitis Association
Intracranial Hypertension Research Foundation
Jeffrey Modell Foundation
The Johns Hopkins University
Juvenile Diabetes Research Foundation
Lehigh Valley Health Network
Life Technologies
Lung Cancer Alliance
Lupus Research Institute
March of Dimes Foundation
Mayo Clinic
Medical College of Wisconsin
Medical Library Association
MedStar Health
Meharry Medical College
Melanoma Research Alliance
Mesothelioma Applied Research Foundation
MetroHealth System
Michigan State University
Morehouse School of Medicine
The Mount Sinai School of Medicine
National Alliance for Eye and Vision Research (NAEVR)
National Association for Biomedical Research
National Association of Medical Minority Educators (NAMME)
National Association of State Alcohol and Drug Abuse Directors
National Coalition for Osteoporosis and Related Bone Diseases
National Kidney Foundation
National Lung Cancer Partnership
National Marfan Foundation
National Osteoporosis Foundation
National Primate Research Centers
National Psoriasis Foundation
Nationwide Children's Hospital
NephCure Foundation
The New York Stem Cell Foundation
Northeastern University
Northwestern University Feinberg School of Medicine
Oregon Health & Science University
Osteogenesis Imperfecta Foundation
Paget and Bone Cancer Foundations
Pancreatic Cancer Action Network
Parkinson's Action Network
PKD Foundation
Penn Medicine
Population Association of America
Pulmonary Hypertension Association
Research!America
Saint Louis University
Scleroderma Foundation
Sjögren's Syndrome Foundation
Sleep Research Society
Society of Behavioral Medicine
Society for Clinical and Translational Science
Society for Industrial and Applied Mathematics (SIAM)
Society for Investigative Dermatology
Society for Maternal-Fetal Medicine
Society for Neuroscience
Society for Pediatric Research
Society for Social Work and Research (SSWR)
Society for Women's Health Research (SWHR)
Society of General Internal Medicine
Society of Gynecologic Oncology
Stanford University School of Medicine
Stony Brook University Medical Center
Treatment Action Group (TAG)
Tuberosclerosis Alliance
The University at Buffalo
University of Arizona
University of California System
The University of Chicago
University of Cincinnati
University of Colorado Anschutz Medical Campus
University of Connecticut Health Center
University of Illinois
University of Central Florida
University of Massachusetts Medical School
University of Michigan, Michigan Institute for Clinical and Health Research
University of Minnesota
University of Nebraska Medical Center
The University of North Carolina at Chapel Hill
University of Pittsburgh School of Medicine
University of Rochester Medical Center
University of South Florida USF Health
University of Texas System
University of Utah Health Sciences
University of Virginia
University of Washington
University of Wisconsin-Madison
U.S. Hereditary Angioedema Association
Vanderbilt University
Wake Forest Baptist Medical Center
Wake Forest University School of Medicine
Washington University in St. Louis
Wright State University Boonshoft School of Medicine

ASPET

Career Center

Coming September 2011
to www.aspet.org!

Job Seekers:

- Access to hundreds of jobs across the country
- Job Agent - receive jobs that match your search criteria
 - Save up to 100 jobs
- Upload up to 5 documents: Resume, Cover Letter, etc.
- Searchable Resume feature

Employers:

- Receive qualified candidates directly to your inbox daily
- Over 100,000 searchable resumes in the database
 - Job Statistic Reports
- National Healthcare Career Network listings
 - Employer resources

The ASPET Career Center is set to go live on Monday, September 12th. For more information please contact membership@aspnet.org.



New ASPET Members

ASPET welcomes the following new members:

Regular Members

Clement B. Alawa, National Animal Production Research Institute

Shaifali Bhalla, Midwestern Univ. Chicago College of Pharmacy

Rebecca M. Craft, Washington State Univ.

Alexander Dietrich, LMU-Munich

Edward J. Ishac, Virginia Commonwealth Univ.

Takahiro Iwamoto, Fukuoka Univ. Faculty of Medicine

Sarah C. Lummis, Univ. of Cambridge

Jason A. Mears, Case Western Reserve Univ.

Mohamed A. Morsy, Faculty of Medicine - El-Minia Univ.

Prakash S. Nagarkatti, Univ. of South Carolina School of Medicine

Vedavalli Pokala, Pacific Univ.

Brooks B. Pond, East Tennessee State Univ.

Rita Raddatz, Cephalon, Inc.

Amina M. Sallam, Dubai Pharmacy College

William A. Sather, Univ. of Colorado Denver/Anschutz Medical Campus

Rebecca P. Seal, Univ. of Pittsburgh

Natalie J. Serkova, Univ. of Colorado Denver/Anschutz Medical Campus

Jai M. Shin, UCLA

Douglas Sweet, Virginia Commonwealth Univ.

Kevin Thorneloe, GlaxoSmithKline Pharmaceuticals

Bennett Van Houten, Univ. of Pittsburgh

Sandeep S. Vansal, Touro College of Pharmacy

Nigel J. Waters, Novartis Institutes for Biomedical Research

Jennifer L. Whistler, Univ. of California, San Francisco

Shinji Yamazaki, Pfizer, Inc.

Haoming Zhang, Univ. of Michigan

Dafang Zhong, Shanghai Institute of Materia Medica

Affiliate Members

Bibu J. Kariyil, Aruna Natural Extracts Ltd.

Postdoctoral Members

Judith N. Alawa, Ahmadu Bello Univ.

Kathirvel Kandasamy, The Univ. of Tennessee Health Sci Ctr

Sai S. Koka, Virginia Commonwealth Univ.

Cibele S. Pinto, Univ. of Kansas Medical Center

Girija Raman, Louisiana State Univ. Hlth Sci Ctr

Manish B. Shah, Univ. of California-San Diego

Elzbieta I. Stolarczyk, Univ. of Kentucky

Graduate Student Members

Ryan C. Bates, Univ. of Colorado Denver/Anschutz Medical Campus

Alex J. Brewer III, Baylor College of Medicine

Colleen M. Carey, Georgia Health Sciences Univ.

Eileen S. Carpenter, SUNY Stony Brook

Lies De Bock, Ghent Univ

Victoria Fischer, Stony Brook Univ.

Elena N. Hambardjueva, Stony Brook Univ.

Aminu Ishaka, Univ. Putra Malaysia

Christian H. James, GlaxoSmithKline

Mary F. Keith, Philadelphia College of Osteopathic Medicine- Georgia Campus

Ken Lee, Stony Brook Univ.

Carmine S. Leggett, Univ. of Louisville

Cindy V. Leiton, Stony Brook Univ.

Shu Meng, Temple Univ.

Jessica M. Murray, Saint Louis Univ.

Ashleigh E. Pulkoski-Gross, SUNY Stony Brook

Katherine E. Ryland, Univ. of Michigan

New ASPET Members

Undergraduate Student Members

- Seemaab Ali**, Yale Univ.
Balyssa B. Bell, Grinnell College
Alexandra E. Bellem, Univ. of Kansas Medical Center
Nikki C. Boggess, Univ. of Kansas Medical Center
Kirby K. Bullock, LSUHSC Shreveport
Yashuan Y. Chao, Univ. of Colorado Denver
Yangmin Chen, Rutgers Univ.
Ellen Choi, Rutgers Univ.
Benjamin Cochran, Vanderbilt Univ.
Talia G. Cohen, Univ. of Buffalo
Brianna L. Conley, Brigham Young Univ.
Jordan L. Daugherty, Univ. of Toledo
Allison M. Dugan, Ohio State Univ.
Jacob Elam, Univ. of Tennessee
Lobna Eldasher, Rutgers Univ.
Gloria Felix, Hunter College
Lindsay Garcia, California State Univ., Stanislaus
Jesus A. Gastelum, San Diego Mesa College
Khushwinder K. Gill, California State Univ. of Bakersfield
Mohan Govindraj, Rutgers Univ.
Matthew Hartzell, DePaul Univ.
Megan A. Hemmrich, Univ. of Kansas Medical Center
Jenna L. Hirsch, Metropolitan State College of Denver
Brittany M. Hollister, Rollins College
Cassie L. Huckabee, Lyon College
Patrick D. Hyatt, Univ. of Kansas Medical Center
William Hyatt, Hendrix College
Daniela Janevska, Benedictine Univ.
Samantha L. Ketcham, Univ. of Texas Health Science Center San Antonio
Amanda L. Kleeman, Univ. of Michigan
Vani Kumaran, Rutgers Univ.
Andriy Kuzmov, Rutgers Univ.
Amanda Labuza, Rensselaer Polytechnic Institute
Christopher Lau, Univ. of Kansas Medical Center
Tam M. Le, Univ. of Arizona
Charles Lee, Rutgers Univ.
Xiao Liang, Univ. of Massachusetts at Amherst
Chelsea P. Liebowitz, Univ. of Michigan
Jason Ma, SUNY-Buffalo
Christian R. Marks, Northwestern State Univ. of LA
Raechel E. McKinley, North Carolina Agricultural and Technical State Univ.
Safia F. Nawaz, Hendrix College
Caitlin A. Nicholson, Dartmouth College
Marissa Nimnual, Rutgers Univ.
Valerie M. Olson, Colorado State Univ.
Abigail Overacre, Univ. of Oklahoma
Okari O. Owate, SUNY at Buffalo
Ji Woong Park, Washington & Jefferson College
Roberto Perez, Rutgers Univ.
Corey S. Post, Univ. of Illinois at Urbana-Champaign
Ashley Press, High Point Univ.
Verma Purnima, Rutgers Univ.
Gregory W. Roloff, Univ. at Buffalo
Julie Safirstein, Rutgers Univ.
Tatiana Shaurova, Univ. at Buffalo
Andrew Shen, Rutgers Univ.
Steven H. Shen, Univ. of Kansas Medical Center
Matthew K. Stern, Univ. of Michigan
Theresa A. Ten Eyck, Univ. of Colorado Denver Anschutz Medical Center
Daniel J. Troup, Univ. of Arizona College of Pharmacy
Qi Wang, Rutgers Univ.
Brittany M. Watson, Univ. of Kansas Medical Center
Brittany D. Weems, Univ. of Texas Health Science Center
Elizabeth S. Williams, Univ. of Michigan
Sarah C. Wyss, Ohio Univ.
Dahea You, Rutgers Univ.
Carolyn V. Zielinski, Univ. of Toledo
Ababayehu L. Zula, Univ. of Colorado Denver

Keep in Touch... Have you moved?
Changed your email address?
Changed jobs?

Keep us informed of changes to your contact information so that you don't miss a single issue of your ASPET journal subscription! Email us at info@aspnet.org.

Member News



Richard H. Kennedy, PhD, Health Sciences Vice President for Research and Associate Dean, Graduate School and Loyola University, has been named Vice Provost for Research and Graduate Programs. Dr. Kennedy is an ASPET Member and a member of the Executive Committee of the Division for Cardiovascular Pharmacology.

Staff News



Danielle Jordan joined the ASPET staff as Administrative Assistant/Awards Coordinator in June. She was previously employed at The Endocrine Society, where she worked in the Society Services and Awards and Publications departments for over six years. Danielle is a Chicago native, but has called Columbia, Maryland her home for the past 13 years. Danielle is happily married with two children. In her spare time, she loves to spend time with her family, likes to bake, and is a diehard Chicago sports fan (with the exception of the White Sox).

In Sympathy

ASPET notes with sympathy the passing of the following members:

James A. Bain

George Fuller

Donald M. Jerina

H. George Mandel

Share Your News... Awards,
Promotions,
Achievements

Share your accomplishments with *The Pharmacologist* and with the ASPET community. Send information and pictures to jhammett@aspet.org.

Obituary

James Arthur Bain (1918 – 2011)

James A. Bain, Professor Emeritus of Pharmacology at Emory University and a former president of the American Society for Pharmacology and Experimental Therapeutics, died of natural causes in Atlanta on June 5. He was 93.

Dr. Bain, a much honored figure in the rarified worlds of medical education and scientific research, was prominent nationally as well internationally. He served as senior executive associate dean of Emory Medical School, conducted studies in a variety of fields—including cellular physiology, biochemical pharmacology, carcinogens, tumors and heredity, and authored or co-authored dozens of research papers and reviews. Not content to restrict his achievements to classrooms and laboratories, Dr. Bain was Druid Hills Golf Club's senior men's golf champion in 1986 and 1988.



Dr. Bain was far from a cloistered academic pursuing theoretical minutiae. In nominating him for the Thomas Jefferson Award, among Emory's highest honors for faculty and staff, Richard M. Krause, M.D., then dean of the medical school, wrote that "Dr. Bain possesses a unique expertise and experience which combines an academic focus with an excellent knowledge of administrative and fiscal operations. Over the years he has developed an extraordinary knowledge for facilities planning, development and construction and this has been particularly valuable in the implementation of new laboratories in the Health Sciences Center." The award's donor specified that "the personal and professional qualities of the recipient should resemble those Thomas Jefferson considered essential to the intellectual, social and political advancement of society." Dr. Bain accepted the award during commencement ceremonies in 1988.

He was also honored that year with the Torald Sollman Award, presented by the American Society for Pharmacology and Experimental Therapeutics "for significant contributions over many years to the advancement and extension of knowledge in the field of pharmacology."

Upon receiving the award, Dr. Bain cited with pride the accomplishments of his doctoral students and their students: "They have far surpassed me in their accomplishments, as they should, particularly in the scientific investigation arena and in the service arena as well. . . . All five of my doctoral students have risen to prominence in the profession—four in academia and one in industry. Three of them have served with distinction as chairmen of major departments of pharmacology and one as chief of his section in a large hospital. They have enriched the literature with over 500 peer-reviewed primary publications, to say nothing of reviews, book chapters, monograph contributions, books and abstracts, all testifying to their participation in scientific research and communication."

James Arthur Bain was born in Langdon, North Dakota, on May 22, 1918. The son of James and Mable Aldritt Bain, a banker and the church organist and piano teacher, he was valedictorian of his high school class. Advised by his father to study law, he chose a different path, earning a B.S. in chemistry at the University of Wisconsin in 1940 followed by a Ph.D. in physiology from the same institution in 1944. After two years' shipboard service as a Navy radar officer he returned to Wisconsin on a Rockefeller Fellowship for postdoctoral work in physical chemistry. From 1947 to 1952 he served on the research and teaching staff of the University of Illinois College of Medicine. He accepted the position of Professor of Pharmacology at Emory in 1954, served as Chairman of Pharmacology from 1957 to 1962, and was director of the university's Division of Basic Health Sciences from 1960 until 1976.

Among his other honors were the Distinguished Medical Achievement Award, presented by the Medical Alumni Association of Emory, and the Distinguished Emeritus Award, given by Emory's Emeritus College.

Dr. Bain married Eleanor Hohaus on December 5, 1947. The union lasted until her death in January of 2010.

He is survived by a sister, Margaret Camp of Silver Spring, Maryland; two sons, Andrew (Sarah Roe) and Peter (Dianne Bain); grandsons Matthew (Missy Bain) and Harrison, and three great grandchildren, all of the Atlanta area.

The family asks that donations be made in Dr. Bain's name to CURE Childhood Cancer, 1117 Perimeter Center West, Suite N-402, Atlanta, GA 30338. 770-986-0035.

Submitted by Peter T. Bain.

Obituary

George C. Fuller (1937 – 2010)

On September 23, 2010, the PhRMA Foundation lost George C. Fuller, a dedicated advisor, committee member, chairman and friend.

Dr. Fuller was Professor Emeritus and former Dean of the College of Pharmacy and Allied Health Professions at Wayne State University (WSU). A longtime member on the advisory boards of the PhRMA Foundation and University of Rhode Island, he provided exceptional leadership and service.

Born in Detroit, Michigan, Dr. Fuller earned his BS in pharmacy in 1959 and his MS in 1963, both from WSU. In 1966, he graduated from Purdue University with a PhD in pharmacology. He taught pharmacology at the University of Rhode Island for 14 years, during which time he also held the rank of lecturer in the Department of Medicine at Brown University. In 1980, he joined G.D. Searle & Company as Director of Pharmacology in the Molecular and Cell Biology



Research Department.

During his tenure as Dean of WSU, Dr. Fuller's vision and commitment led to the creation of a new pharmacy and health science building, which opened in 2002. In 2011, the university's Board of Governors honored his contributions by establishing the George Fuller Endowed Scholarship. He received Distinguished Alumni Awards from WSU and Purdue University.

Dr. Fuller had a genuine interest in the next generation of scientists and was a teacher and mentor to students of pharmacy, medicine, dental hygiene and nursing. His guidance was invaluable to many young pharmacologists, which made him a core contributor to foundation-sponsored science. He also pursued his own research interests, studying pharmacologic management of inflammation and disease-induced alterations in collagen metabolism. He held two US and corresponding foreign patents.

In July 1989, Dr. Fuller became a member of the Basic Pharmacology Advisory Committee for the PhRMA Foundation. He assumed the position of Chair in 2001 and was active in this role for nearly ten years. The Foundation relied on his leadership while evaluating grant and fellowship applications, program services and new initiatives.

Dr. Fuller was a notable authority in the field of pharmacology, having published 85 original scientific articles and book chapters. He was a member of many professional medical organizations, including the American Society for Pharmacology and Experimental Therapeutics, the New York Academy of Science and the Rho Chi Society, an academic honor society in pharmacy. He was a reviewer for the National Institutes of Health and the Environmental Protection Agency and served on the editorial boards of several scholarly journals.

Dr. Fuller enjoyed playing bridge, reading and sailing. He was devoted to his family, including Margery, his wife of 51 years, his three children and grandchildren.

For more than 21 years, George Fuller was an integral part of the PhRMA Foundation. His leadership, insight and altruism will not be forgotten. As stated by Dr. Jim Swarbrick, "He was a good friend, good colleague and a good scientist, gone before his time." Dr. Fuller will truly be missed.

From the Pharmaceutical Research and Manufacturers of America Foundation 2010 Annual Report.

Membership Information

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. Regular members must be nominated by one (1) Regular or Retired ASPET member.

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. Affiliate members must be nominated by one (1) Regular or Retired ASPET member.

Postdoctoral Members: Any qualified person who has received their Ph.D. or equivalent degree in pharmacology or a related field within the past five years is eligible for Postdoctoral membership. Postdoctoral members will receive the same benefits as Regular members, including the right to vote in ASPET elections. Individuals may remain in the Postdoctoral membership category for a maximum of five (5) years from the date of receipt of their PhD (or equivalent) degree after which time they must upgrade to Regular Membership. Applicants for Postdoctoral membership must be sponsored 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. 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 (rphipps@aspnet.org).

Regular Member Benefits (Dues \$150):

- Reduced page charges for corresponding authors to publish in ASPET journals – pay \$50/page instead of \$90/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 four online ASPET journals, including all back issues.
- Free subscription to *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.
- Free listing in the FASEB Directory.
- Membership in multiple ASPET Divisions for no additional dues.

Postdoctoral Members (Dues \$75) have all the benefits of Regular members.

Affiliate Members (Dues \$150) 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 \$30 annual dues 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.

Application Instructions

Submit the completed Application for Membership form or use the online application form on the ASPET web site at www.aspet.org/membership/apply. Submit a current curriculum vitae including bibliography for Regular and Affiliate Membership. You may e-mail the CV to the ASPET Membership Coordinator, Robert Phipps, rphipps@aspnet.org.

Sponsor Statements: Submit a statement of qualifications of the applicant from one Regular/Retired Member of ASPET for Regular Membership, Affiliate Membership and Student Membership (Affiliate Members may also sponsor student applicants). In addition to the statement certifying that the applicant is qualified for ASPET membership, sponsors should provide their 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.



Membership Application

Please Complete All Sections:

Section 1: Application Details

Application for:

Regular Membership

Affiliate Membership

Postdoctoral Membership – Date of Graduation: _____

Graduate Student – Expected Date of Graduation: _____

Undergraduate Student - Year: Fr Soph Jr Sr

Section 2: Source

How did you hear about ASPET:

Meeting _____

ASPET Journal _____

Mentor _____

Website _____

Other _____

Section 3: Personal Information

Name: _____

Institution: _____

Mailing Address: _____

Telephone: _____

Fax: _____

Email: _____

Section 4: Optional Demographics (Not Required)

Date of Birth: _____

Sex: Female Male

Ethnicity: Asian

Black or African American

American Indian or Alaskan Native

Hispanic or Latino

Native Hawaiian or Pacific Islander

White

Other: _____

The information in this section will be used by ASPET to collate statistics and will be kept private. Completion of this section is voluntary.

Section 5: Sponsor (Must be an ASPET Member)

Name and email of your sponsor: _____

Please have your sponsor send us a brief letter or e-mail outlining your qualifications for Membership in ASPET to the Membership Coordinator, Robert Phipps, (rphipps@aspet.org).

Section 6: Division Selection

Divisions: *Division membership is a benefit of ASPET membership and there is no additional charge to belong to a division. It is highly recommended that you join a division so that you may take full advantage of Society participation. Joining a division allows you to participate in creating the scientific program for the annual meeting, network with people in your field at mixers and divisional programs, and receive special notices and newsletters about items and activities of interest in your field. Be sure to pick a division!*

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

Section 7: Curriculum Vitae

Regular, Affiliate, and Graduate Student applicants: Please send your *Curriculum Vitae* (including bibliography) by email to the Membership Coordinator, Robert Phipps, (rphipps@aspet.org).

Undergraduate Student Applicants Only:

Current Education :

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

Applications are reviewed on a rolling basis. Please **DO NOT** submit payment with your application.
 Upon membership approval, you will be sent a dues statement and welcome package.
 Student Membership is **FREE** for the first year.

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