

## James R. Halpert, Bryan F. Cox, and Richard R. Neubig Elected to ASPET Office



### James R. Halpert President-Elect

James R. Halpert, Professor and Associate Dean for Scientific Affairs at Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California – San Diego, will assume the duties and responsibilities of President-Elect of ASPET in July 2009. Dr. Halpert has previously served on the executive committee of the Division for Drug Metabolism and on the editorial board of *Molecular Pharmacology*. He was also the editor of *Drug Metabolism and Disposition*. He was also a member of the Board of Publications Trustees and has served on Council as Secretary/Treasurer.



### Bryan F. Cox Secretary/Treasurer-Elect

Bryan F. Cox, Director of Integrative Pharmacology and Translational Imaging at Abbott Laboratories, will become Secretary/Treasurer-Elect in July 2009. Dr. Cox has previously served on the executive committee of the Division for Drug Discovery, Drug Development, and Regulatory Affairs and on the editorial boards of *Journal of Pharmacology and Experimental Therapeutics* and *Molecular Interventions*. He has also served on the ASPET Council as Councilor.



### Richard R. Neubig Councilor

Richard R. Neubig, Professor of Pharmacology and Associate Professor of Internal Medicine at the University of Michigan, will assume the position of Councilor in July 2009. Dr. Neubig has previously served on the executive committee of the Division for Molecular Pharmacology and on the editorial boards of *Molecular Pharmacology* and *Molecular Interventions*. He has also served on numerous ASPET committees.

**Also Inside this Issue:**  
Award Winners for 2009  
EB 2009 Program Information  
G-Protein Colloquium Program Information  
Proposed Bylaws Changes  
Division Election Results

# The PHARMACOLOGIST

## News

ASPET Office Election Winners .....	page 1
Award Winners for 2009 .....	page 3
EB 2009 Program Grid .....	page 10
G-Protein Colloquium Program .....	page 12
Proposed Bylaws Changes .....	page 14

## Features

Journals .....	page 16
Public Affairs & Government Relations .....	page 18
Division News .....	page 20
Members in the News .....	page 21
Staff News .....	page 21
New ASPET Members .....	page 22
In Sympathy .....	page 25
Obituary .....	
Philip B. Hollander .....	page 26
Joseph V. Levy .....	page 26

## Announcements

Graduate Training Opportunities .....	page 27
Membership Information .....	page 31
Membership Application .....	page 32

**See you at EB 2009!!**  
**ASPET's Annual Meeting**  
**New Orleans, LA**  
**April 18 – 22**  
**Register: [www.eb2009.org](http://www.eb2009.org)**

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Suzie Thompson

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**Palmer W. Taylor, PhD**  
***Julius Axelrod Award***

Palmer W. Taylor, PhD, is recipient of the 2009 ASPET-Julius Axelrod Award. Dr. Taylor is the Sandra and Monroe Trout Chair in Pharmacology, Associate Vice Chancellor for Health Sciences and Dean of the Skaggs School of Pharmacy and Pharmaceutical Sciences at the University of California, San Diego.

The Julius Axelrod Award in Pharmacology was established to honor the memory of the eminent American pharmacologist who shaped the fields of neuroscience, drug metabolism and biochemistry. The Award is given to recognize outstanding scientific contributions in research and mentoring.

Dr. Taylor received his PhD, from the University of Wisconsin. An NIH Fellowship at the Medical Research Council in England and later at the Max Planck Institute in Germany was followed by an appointment as Assistant Professor in Pharmacology at UCSD.

Dr. Taylor has made pioneering contributions to the study of synaptic pharmacology and neuroscience by providing detailed molecular insights into fundamental aspects of regulation at cholinergic synapse. Cholinergic neurons serve critical roles in controlling communication between nerve and muscle and between cells in the brain. His recent work on neuroligin, a cholinesterase homologous synaptic adhesion protein associated with autism emphasizes further the biomedical relevance of his research and demonstrates his characteristic use of multifaceted approaches to dissect structure and molecular mechanisms. Dr. Taylor has trained a multitude of graduate students and postdoctoral fellows who have gone on to prominent careers in industry and academia. He is the director of a large and longstanding NIH funded pre-doctoral training grant in pharmacology and is a dedicated to graduate and medical school teaching. He has served in various leadership positions at including President of ASPET from 1995-1996.

Dr. Taylor will be presented the ASPET-Julius Axelrod Award on Saturday, April 18 at 6:00 p.m. at the ASPET Business Meeting/Awards Reception of the Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics/Experimental Biology (EB) 2009 Meeting in New Orleans, Louisiana. The Business Meeting/Awards Ceremony will take place at the New Orleans Hilton Riverside Hotel, Ballroom HEC-A. Dr. Taylor will deliver the Julius Axelrod Lecture at the 2010 Experimental Biology Meeting.



**John J. Tesmer, PhD**  
***John J. Abel Award***

John J.G. Tesmer, PhD, Associate Professor of Pharmacology and Research Associate Professor of the Life Sciences Institute at the University of Michigan is the recipient of the 2009 John J. Abel Award, sponsored by Eli Lilly & Co. The Award is given to a young investigator for original, outstanding research contributions in the field of pharmacology.

Dr. Tesmer received his BA degree in Biochemistry and English from Rice University where he performed undergraduate research in the growing field of macromolecular crystallography. This experience led him obtain advanced training in crystallography at Purdue where he earned his PhD. He went on to become a Howard Hughes Postdoctoral Fellow at the University of Texas Southwestern Medical Center where he studied the molecular basis of heterotrimeric G protein signaling, such as that mediated between G proteins and the classic effector enzyme adenylyl cyclase. He continued his studies of heterotrimeric G proteins as an Assistant Professor of Chemistry at the University of Texas at Austin. During this time, he received several scientific awards and also established himself as a successful educator, earning the 2004 College of Natural Sciences Teaching Excellence Award. In 2005, Dr. Tesmer was recruited to the Life Sciences Institute and the Department of Pharmacology at the University of Michigan where he has diversified his research projects not only to resolve the atomic structures of large signaling complexes but also to test hypotheses derived from these structures using a broad range of biochemical, biophysical, and genetic tools. In honor of his recent accomplishments, Dr. Tesmer was the recipient of the 2008 Basic Science Award from the University of Michigan Medical School.

## AWARD WINNERS FOR 2009

Dr. Tesmer has consistently made seminal contributions to our understanding of the mechanism of action and structural biology of G protein-coupled receptor (GPCR) signaling cascade. GPCRs are the targets of a large fraction of the drugs currently on market and control a vast range of physiologically important processes ranging from cardiovascular tone to vision. Knowledge of these structures and mechanisms of the proteins found in these cascades opens up new opportunities for the design or discovery of novel therapeutic agents.

Dr. Tesmer will be presented the John J. Abel Award on Saturday, April 18 at 6:00 p.m. at the ASPET Business Meeting/Awards Reception of the Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics/Experimental Biology (EB) 2009 Meeting in New Orleans, Louisiana. The Business Meeting/Awards Ceremony will take place at the New Orleans Hilton Riverside Hotel, Ballroom HEC-A.



### **Kenneth A. Jacobson, PhD** ***Pharmacia-ASPET Award***

Kenneth A. Jacobson, PhD, Chief of the Molecular Recognition Section and Acting Chief of the Laboratory of Bioorganic Chemistry at the National Institute of Diabetes, Digestive, and Kidney Diseases (NIDDK) is the recipient of the 2009 Pharmacia-ASPET Award for Experimental Therapeutics. The Pharmacia-ASPET Award for Experimental Therapeutics is given annually to recognize and stimulate outstanding research in pharmacology and experimental therapeutics—basic laboratory or clinical research that has had, or potentially will have, a major impact on the pharmacological treatment of disease. This award is funded by an endowment from Pharmacia (now Pfizer) and by ASPET.

Dr. Jacobson received his BA in Chemistry from Reed College in Portland, Oregon and MS and PhD, from the University of California, San Diego. After completing his postdoctoral work at the Weizmann Institute in Israel, he joined NIDDK at the National Institutes of Health.

His creativity and his ability to combine the field of chemistry with those of pharmacology and molecular biology have had a major impact on biomedical research and therapeutic development. Over the course of two decades at NIH, Dr. Jacobson has made major contributions to the pharmacology of cell surface receptors, purinergic receptors in particular. Early in his career he pioneered the concept of “functionalized congeners,” a now widely used approach in drug development. More recently, he introduced the concept of “neoreceptors.” His research has led to agents in clinical trials for cystic fibrosis, cancer, cardioischemia, rheumatoid arthritis, psoriasis, and asthma. Dr. Jacobson was recently included in a listing of the ten most cited researchers in the field of pharmacology.

Dr. Jacobson will be presented the Pharmacia-ASPET Award on Saturday, April 18 at 6:00 p.m. at the ASPET Business Meeting/Awards Reception of the Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics/Experimental Biology (EB) 2009 Meeting in New Orleans, Louisiana. The Business Meeting/Awards Ceremony will take place at the New Orleans Hilton Riverside Hotel, Ballroom HEC-A.



### **S.J. Enna, PhD** ***Torald Sollmann Award***

S.J. Enna, PhD, Professor of Molecular and Integrative Physiology, Professor of Pharmacology, Toxicology, and Therapeutics, and Associate Dean for Research and Graduate Education at the University of Kansas Medical School is the recipient of the 2009 Torald Sollmann Award. The Award was established by Wyeth Research to commemorate the pioneering work in America of Dr. Torald Sollmann in the fields of pharmacological investigation and education. Dr. Enna was selected for this Award because of his outstanding and productive research career, his devotion to the teaching of pharmacology, and his unparalleled service to ASPET and the discipline it represents.



## AWARD WINNERS FOR 2009

A native of Kansas City, Missouri, Dr. Enna received his BA in biology from Rockhurst University and his MS and PhD in Pharmacology from the University of Missouri at Kansas City. After postdoctoral studies at the University of Texas Southwestern Medical School, Hoffmann-La Roche in Switzerland and Johns Hopkins University School of Medicine, Dr. Enna spent a decade at the University of Texas Medical School in Houston. He moved to Nova Pharmaceutical Corporation as Scientific Director and Executive Vice President. In 1992 he returned to his hometown of Kansas City as Chair of the Department of Pharmacology, Toxicology and Therapeutics at the University of Kansas Medical School. He remained as Chair through 2003 and assumed his current role as Associate Dean for Research and Graduate Education at the Medical School in 2007.

Dr. Enna has made significant contributions in defining the pharmacological and biochemical properties of neurotransmitter receptors, in particular those for GABA for which he is considered a leading expert in the field. He has also conducted research into the effects of hormones on neurotransmitter receptor function and receptor responses to psychotherapeutics, the development of receptor antagonists for NMDA, cholinergic muscarinic and bradykinin receptors, and the identification of the cellular components of coincident signaling in the brain.

Dr. Enna has also devoted considerable effort to teaching. He received the Basic Science Teaching Award from the medical students at the University of Texas for five of the ten years he was on the faculty there. Adjunct teaching appointments at Johns Hopkins and Tulane are further evidence of his reputation as an instructor. This tradition has continued at the University of Kansas where his department received the Best Teaching Award from medical students in nine of the eleven years he served as Chair.

An active leader in pharmacology at both the national and international levels, Dr. Enna is currently Secretary General of the International Union of Basic and Clinical Pharmacology (IUPHAR). A prolific writer, he has contributed to the education of thousands of pharmacologists and physician through his hundreds of research and review articles as well as the 24 books in the discipline that he has either edited or co-edited. He also has served as editor of some of the major journals in the field including the *Journal of Pharmacology and Experimental Therapeutics*. Dr. Enna has served on many committees of ASPET and was twice elected to ASPET Council. He was ASPET president in 2000.

Dr. Enna will be presented the ASPET-Torald Sollmann Award on Saturday, April 18 at 6:00 p.m. at the ASPET Business Meeting/Awards Reception of the Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics/Experimental Biology (EB) 2009 Meeting in New Orleans, Louisiana. The Business Meeting/Awards Ceremony will take place at the New Orleans Hilton Riverside Hotel, Ballroom HEC-A. His Sollman Award lecture, titled "Mentors, Methods and Manuscripts" will be presented on Tuesday, April 21 from 8:30- 9:20 am in Room 206 of the Ernest N. Morial Convention Center.

**Dr. Enna will deliver his lecture titled, "Mentors, Methods and Manuscripts" on Tuesday, April 21 from 8:30 – 9:20 am in Room 206 of the Ernest N. Morial Convention Center in New Orleans.**



**Tallie Z. Baram, MD, PhD**

***The Epilepsy Research Award for Outstanding Contributions to the Pharmacology of Antiepileptic Drugs***

Tallie Z. Baram, MD, PhD, Professor in the Departments of Pediatrics, Anatomy/Neurobiology and Neurology at the University of California, Irvine, is recipient of the 2009 ASPET-Epilepsy Award. The Award is sponsored by ASPET and the International League Against Epilepsy and donated by Pfizer. The award is to recognize and stimulate outstanding research leading to better clinical control of epileptic seizures.

A native of Israel, Dr. Baram received her PhD from the Weizmann Institute of Science and her MD from the University of Miami School of Medicine. She completed her medical residency in pediatrics and fellowship in child neurology at the Baylor College of Medicine. She later joined the faculty at the University of Texas and MD Anderson before moving to the Children's Hospital of Los Angeles and the University of Southern California. At UC Irvine, she also holds the Danette

## AWARD WINNERS FOR 2009

Shepard Endowed Chair in Neurological Sciences and is Scientific Director of the UCI Epilepsy Program as well as founder and Executive Committee Chair of the UCI Epilepsy Research Center.

Dr. Baram has studied two important pediatric seizures: infantile spasms and febrile seizures. Her contributions have revolutionized the field. Recognized internationally by her peers, Dr. Baram was chosen for the prestigious honor in Basic Research in Epilepsy, the American Epilepsy Award in Basic Epilepsy Research. Dr. Baram's research was also chosen by the National Institute for Neurological Sciences and Stroke (NINDS) for the Javits Merit Award.

Dr. Baram will be presented the ASPET-Epilepsy Award on Saturday, April 18 at 6:00 p.m. at the ASPET Business Meeting/Awards Reception of the Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics/Experimental Biology (EB) 2009 Meeting in New Orleans, Louisiana. The Business Meeting/Awards Ceremony will take place at the New Orleans Hilton Riverside Hotel, Ballroom HEC-A.

### ***ASPET-Astellas Awards in Translational Pharmacology***

The ASPET-Astellas Awards in Translational Pharmacology are intended to recognize pharmacological research accomplishments that seek to extend fundamental research closer to applications directed towards improving human health. The awards will be given to 1) recognize those individuals whose research has the potential to lead to the introduction of novel pharmacologic approaches or technologies that may offer significant advances in clinical medicine in the future and 2) to facilitate that translational process. The awards are made possible by a grant to ASPET from the Astellas Foundation, and there are three recipients.



#### **Piyali Dasgupta, PhD** ***ASPET-Astellas Award in Translational Pharmacology***

Piyali Dasgupta, PhD, of the Marshall University Medical School is a recipient of the 2009 ASPET-Astellas Award in Translational Pharmacology.

Dr. Dasgupta is currently Assistant Professor in the Department of Pharmacology, Physiology and Toxicology at Marshall University Medical School. She received her undergraduate degree from the University of Delhi and Masters of Science in Chemistry from the Indian Institute of Technology in New Delhi. She earned her PhD from the Jawaharlal Nehru University in India and began a postdoctoral fellowship at the College of Physicians and Surgeons, Columbia University. Subsequently, the research group moved to the Moffitt Cancer Center in Tampa, Florida.

Dr. Dasgupta's major emphasis in teaching and research is understanding how signaling mechanisms underlying tobacco components like nicotine contribute to the pathophysiology of lung cancers. Her research has direct clinical relevance to human lung cancer therapy.



#### **Richard R. Neubig, PhD** ***ASPET-Astellas Award in Translational Pharmacology***

Richard R. Neubig, MD, PhD, of the University of Michigan is a recipient of the 2009 ASPET-Astellas Award in Translational Pharmacology.

Dr. Neubig joined the University of Michigan from Harvard Medical School where he earned his MD and PhD. After starting as a House Officer at the University of Michigan Hospital, he was appointed as an instructor in the Department of Pharmacology. He is currently Professor in the Department of Pharmacology and Co-Director the University of Michigan's Center for Chemical Genomics which he helped to establish.

Dr. Neubig is a pioneer in the study of RGS proteins and has been at the forefront in both conceptual and experimental work to develop the novel RGS family as therapeutic drug targets. Since RGS proteins modulate the signaling of G protein coupled receptors which are very important in clinical drug development, successful pharmacological targeting of RGS proteins would have significant therapeutic potential. For these and many other related contributions, Dr. Neubig is recognized nationally and internationally as a leading authority on RGS proteins.



**Paul A. Insel, PhD**  
***ASPET-Astellas Award in Translational Pharmacology***

Paul A. Insel, MD, of the University of California at San Diego (UCSD) is a recipient of the 2009 ASPET-Astellas Award in Translational Pharmacology.

Dr. Insel is currently Professor and Vice-Chair of Pharmacology and Professor of Medicine and Director of the MD-PhD Medical Scientist Training Program at UCSD. He received his MD from the University of Michigan Medical School and completed an internship and residency at Harvard. After serving as a Clinical Associate at NIH, he did post-doctoral work and was Assistant Professor in Residence in Clinical Pharmacology at the University of California at San Francisco before moving to UCSD as Assistant Professor in the Department of Medicine, Division of Pharmacology, which later became the Department of Pharmacology.

Dr. Insel has made substantial research contributions in multiple areas of molecular pharmacology. Through studies of cell culture models, experimental animals and human material, his research efforts have provided important insights regarding receptors, especially G-protein-coupled receptors (GPCR) and their signaling events. Dr. Insel has also taken leadership roles through editorships of several journals, including *Molecular Pharmacology*, and has played an active role in professional societies, including ASPET.

***Graduate Student Travel Award Winners to EB 2009***

- Quaisar Ali (*Univ of Houston*)
- Amy Arnold (*Wake Forest Univ*)
- Monica Arnold (*Univ of California - Irvine*)
- Erika M. Boerman (*Michigan State Univ*)
- Remy L. Brim (*Univ of Michigan*)
- Chun Cheng Andy Chen (*New York Medical College*)
- Yukun Chen (*Texas Tech Univ Health Sciences Ctr*)
- Robert P. Davis (*Michigan State Univ*)
- Natasha M. DeVore (*Univ of Kansas*)
- Melanie A. Felmlee (*Univ at Buffalo*)
- John J. Foley (*Temple Univ School of Pharmacy*)
- Stephen R. Fuhs (*Univ of California-San Diego*)
- Jacob C. Garza (*Univ of Texas Health Science Ctr*)
- Robert W. Gould (*Wake Forest Univ Health Sciences Ctr*)
- Laurel Grisanti (*Univ of North Dakota*)
- Steven Hart (*Univ of Kansas Medical Ctr*)
- Edward G. Hawkins (*Virginia Commonwealth Univ*)
- Yousuke Horikawa (*Univ of California-San Diego*)
- Nidhi Kaushal (*West Virginia Univ*)
- Jennifer M. King (*Meharry Medical College*)
- Carolyn A. Kitchens (*Univ of Pittsburgh*)
- Stephen M. Kraynik (*Univ of Washington*)
- Prasad Krishnan (*Louisiana State Univ Health Science Ctr*)
- Christel Kroigaard (*Univ of Aarhus*)
- Evan P. Lebois (*Vanderbilt Univ Medical Center*)
- Victor V. Lima (*Medical College of Georgia*)
- San San Lin (*Univ of Goettingen Institute of Medical Microbiology*)
- Silu Lu (*Univ of Mississippi Medical Ctr*)
- John S. Lyssand (*Univ of Washington*)
- Veronica R. Mackey (*Meharry Medical College*)
- Alexander R. Mackie (*Loyola Univ Chicago*)
- Vandana Megaraj (*Univ of Kentucky*)
- Anne Mullen Grey (*Univ of Toronto*)
- Ana Rita S. Nunes (*Johns Hopkins Med*)
- Amanda L. Obaidat (*Univ of Kansas Medical Ctr*)

## AWARD WINNERS FOR 2009

Uade B. Olaghere Da Silva (*Vanderbilt Univ*)  
Kristen L. Osterlund (*Univ of Arizona-Phoenix College of Medicine*)  
Elina . Pathak (*Univ of Arkansas for Medical Sciences*)  
Damie S. Phua (*Monash Univ*)  
Stephanie M. Piecewicz (*Harvard Univ/MIT*)  
Jesse Procknow (*St Louis Univ School of Medicine*)  
Lauren C. Purington (*Univ of Michigan*)  
Megan E. Roth (*Univ of Kansas Medical Ctr*)  
Ravi K. Sajja (*South Dakota State Univ*)  
Mohamed A. Saleh (*Medical College of Georgia*)  
Praveen Shukla (*North Dakota State Univ*)  
Najla Taslim (*East Carolina Univ Brody School of Medicine*)  
Arunkumar Thangaraju (*Oklahoma State Univ Ctr for Health Sciences*)  
Tracy L.Thennes (*Univ of Illinois - Chicago*)  
Inimary Toby (*Ohio State Univ*)  
Michael Tranter (*Univ of Cincinnati College of Medicine*)  
Nien-pei Tsai (*Univ of Minnesota*)  
Hui Wang (*Michigan State Univ*)  
Tingting Wang (*Uniformed Services Univ of the Health Sciences*)  
Lindsay Wilson (*Queen's Univ*)  
Mingyi Yao (*Creighton Univ*)  
Anja Christina Zahno (*Univ of California - San Diego*)

### **Young Scientist Travel Award Winners to EB 2009**

Poulomi Acharya (*Univ of California - San Francisco*)  
Adebowale Adebisi (*Univ of Tennessee Health Science Ctr*)  
Ningfei An (*Medical Univ of South Carolina*)  
Debra A. Bangasser (*The Children's Hospital of Philadelphia*)  
Clinton E. Canal (*Vanderbilt Univ*)  
Takato Hiranita (*National Institute on Drug Abuse*)  
Michael A. Holinstat (*Thomas Jefferson Univ*)  
Pimonrat Ketsawatsomkron (*Roy J. and Lucille A. Carver College of Medicine*)  
Jun-Xu Li (*Univ of Texas Health Science Ctr*)  
Aurea E. Linder (*Michigan State Univ*)  
Sarah H. Lindsey (*Wake Forest Univ School of Medicine*)  
Fiona Murray (*Univ of California - San Diego*)  
Beatrice A. Nyagode (*Emory Univ School of Medicine*)  
Sukru S. Oner (*Medical Univ of South Carolina*)  
Gracious Ross (*Virginia Commonwealth Univ*)  
Nichole C. Sanders (*Univ of Arkansas for Medical Sciences*)  
Xiaowei Sun (*Univ of Alabama - Birmingham*)  
Kah Poh Hendrick Tan (*Univ of Toronto Hospital for Sick Children*)  
Keshari Thakali (*Univ of Arkansas for Medical Sciences*)  
Susan K. Wood (*Children's Hospital of Philadelphia*)  
Zhengyuan Xia (*Univ of Hong Kong*)  
Mustafa S. Yilmaz (*Albany College of Pharmacy*)  
Wenbo Zhang (*Medical College of Georgia*)

### **Summer Undergraduate Research Fellow Travel Awards**

Renee Jordan (*Mentor: Nancy Rusch, Univ of Arkansas for Medical Science*)  
Ke Xu (*Mentor: Van Doze, Univ of North Dakota*)  
Lisa Zelinsky (*Mentor: Raymond Quock, Washington State Univ*)

**All awards will be presented on Saturday, April 18, 2009, at 6:00PM at the ASPET Business Meeting of the Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics/Experimental Biology (EB) 2009 Meeting in New Orleans, LA. The Business Meeting will take place at the Hilton Riverside Hotel, Ballroom HEC-A.**





JOIN us at the  
2009 CATECHOLAMINE CLUB  
DINNER / LECTURE CRUISE  
on the Mississippi River  
Monday April 20, 2009



The Catecholamine Club Dinner Cruise on the Mississippi River  
will be held in the  
Private King's Room of the  
Paddlewheeler Creole Queen River Boat

A pre-dinner reception with an open bar will begin at 7 PM  
Cruising from 8 PM to 10 PM  
With New Orleans Style Dinner

After dinner we will enjoy a lecture by  
*Palmer W. Taylor,*  
*the 2009 recipient of the ASPET Julius Axelrod Award*  
Boarding is at the foot of Canal Street at Poydas St.  
at the end of the Riverwalk (300 feet west of ferry)



Dinner Cruise and Lecture

- Current Club Members \$65.00
- Non members \$100.00  
(annual membership is \$20\*)
- Trainees \$50.00  
(includes 1 yr free club membership)

Register and pay [www.catecholamineclub.org](http://www.catecholamineclub.org)  
Or mail check to CA Club Treasurer:  
Courtney Holmes  
Clinical Neurocardiology Section, NINDS, NIH  
Building 10, Room 6N250  
10 Center Drive, MSC 1620  
Bethesda, MD 20892-1620

\*Take advantage of 3 yr membership  
for \$50 as dues are going up next year

Payment for the dinner is required by:  
Thurs April 9, 2009

# American Society for Pharmacology and Experimental Therapeutics at Experimental Biology 2009 – NEW ORLEANS

All rooms listed are in the Ernest N. Morial Convention Center unless otherwise noted

ASPET Booths 1526, 1528 & 1530

Exhibits 9:00 AM -4:00 PM Sunday - Tuesday

Page 1 of 2

FRIDAY APRIL 17	SUNDAY AM APRIL 19	SUNDAY PM APRIL 19	MONDAY AM APRIL 20	MONDAY PM APRIL 20	TUESDAY AM APRIL 21	TUESDAY PM APRIL 21	WED AM APRIL 22
G-Protein Targets Colloquium – Day 1 <i>A. Smrka, T. Filtz</i> 8:00 AM - 5:15 PM Hilton Grand Salon 3 & 6  <i>Separate, Pre-registration Required</i>	<b>Diversity Committee Mentoring Breakfast</b> 7:30 AM - 9:30 AM Hilton Melrose Room	<b>IUPHAR LECTURE</b> Seven transmembrane receptors <i>R.J. Lefkowitz</i> 2:00 PM - 2:50 PM Room 206	<b>WIP Into Shape Walk</b> 7:00 AM - 8:30 AM Hilton Meet at Concierge Desk	CARDIOVASCULAR PHARMACOLOGY DIVISION Junior Scientists' Competition 2:30 PM - 4:20 PM Room 210	<b>ASPET Women in Pharmacology &amp; APS Women in Physiology Committees Workshop</b> Pathways to leadership: Developing critical skills <i>A. Del Tedici, H. Brevig, B. Alexander</i> 8:00 AM -10:00 AM Room 346	DRUG METABOLISM DIVISION Early Career Achievement Award Lecture: Nuclear receptors in drug metabolism: A decade of orphan brother actions <i>W. Xie</i> 2:00 PM - 2:50 PM Room 209	MP Virally-encoded G protein coupled receptors as new drug targets? <i>R. Leurs, S. Lira</i> 8:00 AM - 10:30 AM Room 210
<b>SATURDAY APRIL 18</b>	<b>RAY FULLER LECTURE IN THE NEUROSCIENCES</b> Changes in the brain during chronic exposure to nicotine <i>H. Lester</i> 8:30 AM - 9:20 AM Room 206	CPPTM, DM, MP, ASBMB Metabolomics in the search for biomarkers for human diseases <i>F. Gonzalez, R. Kim</i> 3:00 PM - 5:30 PM Room 207	<b>JULIUS AXELROD LECTURE</b> Miscarriage at the synapse: Brain disorder-associated deficits in membrane transport <i>R. Blakely</i> 8:30 AM - 9:20 AM Room 206 <b>Julius Axelrod Symposium:</b> The neurotransmitter end game: Structure, function & regulation of neurotransmitter transport <i>R. Blakely, M. Hahn</i> 9:30 AM - 12:00 PM Room 206	CARDIOVASCULAR PHARMACOLOGY DIVISION Benedict Lucchesi Distinguished Award Lecture: Regulation of cardiac hypertrophy and heart failure through Gq, calcium & CaM kinase II <i>J. H. Brown</i> 4:30 PM -5:30 PM Room 210	<b>TORALD SOLLMANN AWARD LECTURE</b> Mentors, methods & manuscripts <i>S.J. Enna</i> 8:30 AM - 9:20 AM Room 206  All Divisions All Presidents' Symposium on Integrative Pharmacology <i>D. Marshall, W. Fleming</i> 9:30 AM - 12:00 PM Room 206	DRUG METABOLISM DIVISION Platform Session: Biotransformation & drug transport <i>T. Kocarek, J. Stevens</i> 3:00 PM - 5:30 PM Room 209	DM, CPPTM, DDDRA Regulation of xenobiotic metabolizing enzymes in humans: Implications for the propagation of health & disease <i>C. Falany, M. Runge-Morris</i> 8:00 AM - 10:30 AM Room 209
G-Protein Targets Colloquium Day 2 <i>A. Smrka, T. Filtz</i> 8:00 AM - 5:15 PM Hilton Grand Salon 3 & 6 <i>Separate, Pre-registration Required</i>	<b>Ray Fuller Symposium</b> Mechanisms of nicotine addiction <i>H. Lester</i> 9:30 AM - 12:00 PM Room 206	PHARMACOLOGY EDUCATION DIVISION Using medical simulation to enhance pharmacology education through out the undergraduate curriculum <i>J. Szarek</i> 3:00 PM - 5:30 PM Hilton, Melrose Room	EDU/SIP, DDDRA Regenerative pharmacology: The new pharmacology <i>G. Christ, J. Strandhoy</i> 9:30 AM - 12:00 PM Room 209	DRUG DISCOVERY, DEVELOPMENT & REGULATORY AFFAIRS DIVISION New insights into pain signaling pathways <i>A. Bhattacharya, M. Jarvis</i> 3:00 PM - 5:30 PM Room 208	TOX, DM Exposure to environmental agent alters epigenetic homeostasis <i>M. Costa, M. Vore</i> 9:30 AM - 12:00 PM Room 208	CLINICAL PHARMACOLOGY, PHARMACOGENOMICS & TRANSLATIONAL MEDICINE DIVISION Translational clinical pharmacology research: Emerging frontiers <i>R. Kim</i> 3:00 PM - 5:30 PM Room 207	CPPTM, DDDRA, SIP, WIP Therapeutics in auto-immunity: Treatment successes & side effects as a tool of elucidating pathogenic pathways <i>C. Paronis, C. Weyand</i> 8:00 AM - 10:30 AM Room 207
Behavioral Pharmacology Society Meeting 8:00 AM - 5:00 PM Hilton Compass Room <i>Separate, Pre-registration Required</i>	<b>2009 Teaching Institute</b> Integrating basic sciences & patient care in a core clerkship curriculum <i>A. Wilson-Delfosse</i> 9:30 AM - 12:00 PM Room 208	CVP, CPPTM, SIP The serotonin transporter: Not just for neurons anymore <i>A. Linder, S. Watts</i> 3:00 PM - 5:30 PM Room 206	MP, CPPTM, CVP, DDDRA, SIP, ASBMB MicroRNAs as biological effectors & as pharmacological targets in the cardiovascular system <i>J.D. Port</i> 9:30 AM - 12:00 PM Room 207	MOLECULAR PHARMACOLOGY DIVISION Postdoctoral Award Finalists <i>M. Bouvier</i> 3:00 PM - 5:30 PM Room 206	DDDRA, MP Discovery & development of oligonucleotide therapeutics <i>T. Parry</i> 9:30 AM - 12:00 PM Room 207	SYSTEMS & INTEGRATIVE PHARMACOLOGY DIVISION Young Investigator Platform <i>D. Bylund, D. Marshall</i> 3:00 PM - 5:30 PM Room 208	SIP, CVP, DDDRA, MP Endothelial progenitor cells & cardiovascular disease – From bench to bedside <i>A. Chen</i> 8:00 AM - 10:30 AM Room 208
<b>Diversity Committee Workshop:</b> Lessons learned along the way: Career choices from past travel awardees <i>G. Torres, D. Shockley</i> 12:30 PM - 3:00 PM Room 208	CVP, ASBMB AMPK as a novel therapeutic approach for the treatment of metabolic disorders & heart disease <i>K. Walsh, B. Viollet</i> 9:30 AM - 12:00 PM Room 207	TOX, DM, MP Generating proteomic diversity in xenobiotic biotransformation with alternative RNA splicing <i>C. Omiecinski</i> 3:00 PM - 5:30 PM Room 208	TOX, CPPTM, CVP DM The role of nuclear receptors in lipid homeostasis <i>J. Pascussi, C. Omiecinski</i> 9:30 AM - 12:00 PM Room 208	TOXICOLOGY DIVISION The Nrf2-Keap1 system: an emerging key regulator in defense against oxidative stress, chemical toxicity and disease <i>Q. Ma, M. Yamamoto</i> 3:00 PM - 5:30 PM Room 209	DM, CPPTM, DDDRA, SIP, TOX Targeting drug metabolizing enzymes for effective chemopreventive approaches <i>H. Swanson, E. Scott</i> 9:30 AM - 12:00 PM Room 209	NEUROPHARMACOLOGY DIVISION Postdoctoral Scientist Award Finalists <i>C. Felder</i> 3:00 PM - 5:30 PM Room 206	NEU, CVP, MP, SIP, TOX Gases as neuro-modulators in sensing: From nitric oxide to hydrogen sulfide <i>A. Kawabata, P. Moore</i> 8:00 AM - 10:30 AM Room 206

# American Society for Pharmacology and Experimental Therapeutics at Experimental Biology 2009 – NEW ORLEANS

All rooms listed are in the Ernest N. Morial Convention Center unless otherwise noted

Page 2 of 2

SATURDAY APRIL 18	SUNDAY AM APRIL 19	SUNDAY PM APRIL 19	MONDAY AM APRIL 20	MONDAY PM APRIL 20	TUESDAY AM APRIL 21	TUESDAY PM APRIL 21	WED AM APRIL 22
<b>Graduate Student- Postdoc Colloquium</b> Mentoring: It Goes Both Ways <i>S. Lindsey</i> 3:15 PM - 5:45 PM Room 209	NEU, BEH, DDDRA, MP, SIP Adv in down syndrome neuro-science research: Implications for Alzheimer's Disease, dementias & other cognitive disorders <i>T. Esbenshade, A. Costa</i> 9:30 AM - 12:00 PM Room 210	BEH, DDDRA, NEU, SIP Emerging approaches to treatment of Alzheimer's Disease <i>R. Strong, G. Gerhardt</i> 3:00 PM - 5:30 PM Room 210	BEH, NEU, SIP The role of insulin & leptin in drug addiction & mood <i>C. France, L. Daws</i> 9:30 AM - 12:00 PM Room 210	BEHAVIORAL PHARMACOLOGY DIVISION Pharmacological imaging in behavioral pharmacology & drug development <i>L. Howell, M. Nader</i> 3:00 PM - 5:30 PM Room 207	NEU, BEH, MP ASBMB Receptor signaling & regulation in neuropsychiatric research <i>L. Bohn</i> 9:30 AM - 12:00 PM Room 210	NEU, BEH, SIP, TOX Neuroplastic & neurode- generative changes associated with drug abuse & addiction <i>J. Cadet</i> 3:00 PM - 5:30 PM Room 210	
<b>ASPET Business Meeting</b> 6:00 PM - 7:30 PM Hilton Ballroom HEC-A	DDDRA, SIP A renaissance in marine pharmacology: Preclinical curiosity to clinical reality <i>K. Glaser, A. Mayer</i> 9:30 AM - 12:00 PM Room 209		The evolution of creationism <i>G. Petsko</i> 5:00 PM - 6:30 PM La Louisiane Ballroom B				
<b>Opening Reception</b> 7:30 PM - 9:00 PM Mulate's Restaurant, 201 Julia Street- Across from Convention Center		<b>Graduate Student- Postdoc Best Abstract Competition</b> 6:30 PM - 8:30 PM Hilton Napoleon Ballroom	Improving NIH peer review: Maintaining the national strategic value of peer review <i>V. Miller</i> 5:45 PM - 7:15 PM Room 255-257				

Posters will be displayed 7:30 AM – 6:00 PM Sunday and Monday and 7:30 AM to 4:00 PM Tuesday. Authors must be present by their boards 12:30 PM – 2:45 PM.

## Sunday Poster Sessions

Cardiovascular risk: Genetic aspects  
Atherosclerosis  
CVP: Coagulation & thrombosis  
CVP: Cardiac injury & remodeling  
CVP: Heart failure  
Diabetes: Models & treatment  
Vascular pharmacology: Ion channels  
Signal transduction - Ion channels  
Signal transduction - Kinases  
Signal transduction - Second messengers  
G-protein subunits  
Regulation of G protein signaling  
Signaling mechanisms underlying gene expression  
Learning & memory  
Parkinson's disease  
Stimulants I: Drug abuse  
Stimulants II: Other  
Drug abuse: Ethanol & opioids  
Stress & depression

## Monday Poster Sessions

Pain  
Drugs & discrimination  
Cannabinoids & behavior  
Dopamine & behavior  
Neurotransmitters  
Drug transporters  
Organic anion & cation transporters  
DM: Phase I enzymes  
DM: Phase II enzymes  
Reactive metabolites & toxicity  
Drug metabolizing enzyme gene regulation  
Pulmonary injury & healing  
Renal injury & function  
Cytokine & chemokine mechanisms in inflammation  
& metabolism  
Therapeutic targets & mechanisms in cancer  
Drug discovery & development  
Clinical pharmacology/toxicology  
Women's health  
Nanotechnology  
General pharmacology/toxicology

## Tuesday Poster Sessions

Smooth muscle pharmacology  
Vasodilation  
Vasoconstriction  
Vascular endothelium: General  
Vascular endothelium: Angiotensin  
Vascular endothelium: Nitric oxide  
Vascular endothelium: Oxidative stress  
Physiology & signal transduction  
Organ system pharmacology/ regenerative pharmacology  
GI pharmacology  
Hormonal action  
Ligand receptor structure & function  
GPCR activation  
GPCR desensitization/internalization  
Receptor trafficking  
Neuronal plasticity & regulation  
Neuroprotection & neurodegeneration

## G-Protein Targets

April 17-18, 2009

New Orleans Hilton Riverside Hotel, New Orleans, LA

Organizers:

Theresa M. Filtz, PhD, Oregon State University

Alan V. Smrcka, PhD, University of Rochester School of Medicine

Sponsored by: ASPET's Division for Molecular Pharmacology

Co-Sponsored by: The American Society for Biochemistry and Molecular Biology

ASPET's Division for Cardiovascular Pharmacology

Wyeth Research Laboratories

Roche Palo Alto, LLC

Friday, April 17, 2008

8:00 am	Introduction and Welcome	Alan V. Smrcka Theresa M. Filtz
<b>Theme I:</b>	<b>Effector Structure and Mechanism for Regulation</b> <b>Session Chair: T. Kendall Harden</b>	
8:10 am	Mechanism of Activation of Phospholipase C Isozymes	T. Kendall Harden <i>Univ of North Carolina</i>
8:50 am	Structure and function of G-Protein Regulated RhoGEFs	John J.G. Tesmer <i>Univ of Michigan</i>
9:30 am	Molecular Basis for K <sup>+</sup> Channel Regulation by Gβγ	Diomedes E. Logothetis <i>Virginia Commonwealth Univ</i>
10:10 am	Break & Posters	
<b>Theme II:</b>	<b>Novel G-Protein Effectors and Regulatory Mechanisms</b> <b>Session Chair: Paul C. Sternweis</b>	
10:40 am	G12/G13 Activation of Adenylyl Cyclase	Lily Jiang <i>Univ Texas Southwestern Med Ctr</i>
11:20 am	A Novel Signaling Mode for α <sub>1A</sub> -Adrenergic Receptors	Marcos E. Milla <i>Roche, Palo Alto</i>
12:00 noon	Lunch	
1:30 pm	GIV is a Non-Receptor GEF for G <sub>oi</sub> with a Unique Motif that Regulates Akt Signaling (submitted abstract)	Mikel Garcia-Marcos <i>Univ of California, San Diego</i>
<b>Theme III:</b>	<b>Effector Scaffolding</b> <b>Session Chair: Terry Hébert</b>	
2:00 pm	Cell Signaling in Space and Time	Graeme Carnegie <i>Univ of Washington</i>
2:40 pm	Molecular Chaperones for Kir3 Channel Assembly	Terry Hébert <i>McGill Univ, Canada</i>
3:20 pm	Break & Posters	



## G-Protein Targets Colloquium Program – EB Satellite Meeting

3:40 pm N-Terminus of Adenylyl Cyclase 5 Scaffolds Heterotrimeric G-Proteins (submitted abstract) Rachna Sadana  
*Univ of Texas HSC – Houston*

### Special Lecture on G-Protein BRET Methods: Application to G Protein Effectors:

4:10 pm Use of BRET to Monitor G-Protein Conformational Changes Michel Bouvier  
*Univ of Montreal, Canada*

### Saturday, April 18

#### Theme IV: Effector Cell Physiology and Pharmacological Targeting Session Chair: Alan V. Smrcka

8:20 am RhoGEF Regulation in Cells Philip B. Wedegaertner  
*Thomas Jefferson Univ*

9:00 am Epac in cAMP-dependent Physiology Martina Schmidt  
*Univ Groningen, Netherlands*

9:40 am cAMP Signaling Axes in the Regulation of Pancreatic Islet Cell Function (submitted abstract) Michelle E. Kimple  
*Duke Univ Medical Ctr*

10:10 am Break & Posters

10:40 am Pharmacological Targeting of AC Yoshihiro Ishikawa  
*UMDNJ-New Jersey Med Sch*

11:20 am Diverse Mechanisms for Inhibition of G $\beta\gamma$  Signaling by Proteins, Peptides and Small Molecules Alan V. Smrcka  
*Univ of Rochester*

12:00 noon Lunch

#### Theme V: Physiological Roles of G-Protein Effector Systems *in vivo* Session Chair: Theresa M. Filtz

1:30 pm Role of Adenylyl Cyclase Type 5 in Longevity and Stress Resistance Stephen F. Vatner  
*UMDNJ-New Jersey Med Sch*

2:10 pm PLC Regulation in the Heart Elizabeth A. Woodcock  
*Baker Med Res Inst, Australia*

2:50 pm Break & Posters

3:20 pm Chemoattractant Signaling in Myeloid Function Dianqing (Dan) Wu  
*Yale Univ*

### Plenary Lecture:

4:20 pm G-Proteins and G-Protein Targets Heidi Hamm  
*Vanderbilt Univ*

*Continental Breakfast will be available both days at 7:30 am.*

**REGISTER TO ATTEND AT: [http://www.aspet.org/public/meetings/G-Protein\\_09.htm](http://www.aspet.org/public/meetings/G-Protein_09.htm)**

## PROPOSED BYLAWS CHANGES

The ASPET Council proposes the following changes to two of ASPET's bylaws. The changes in the bylaws will be voted on at the Annual Meeting (Experimental Biology 2009) on Saturday, April 18, at 6:00pm in the HEC-A Ballroom of the New Orleans Hilton Riverside Hotel.

### Article II. Members SECTION 2. Nomination of Members

#### Current wording of the bylaws:

**Proposal of Nominees.** Nominees for membership (other than Corporate Associates, Affiliate Members or Student Members) shall be proposed by **two** regular members of the Society. Nominations may be submitted at any time during the year. Review of applications by the Executive Office shall occur on a regular basis.

#### Proposed wording of the bylaws:

**Proposal of Nominees.** Nominees for membership (other than Corporate Associates, Affiliate Members or Student Members) shall be proposed by **one** regular member of the Society. Nominations may be submitted at any time during the year. Review of applications by the Executive Office shall occur on a regular basis.

**Bold** indicates change.

### ARTICLE VIII. Representation on Federation Board

#### Current wording of the bylaws:

The Presidents of the American Society for Pharmacology and Experimental Therapeutics, elected in alternate years, shall represent the Society on the Board of Directors of the Federation of American Societies for Experimental Biology for a term of 4 years. Service on the Board of Directors of the Federation of American Societies for Experimental Biology shall commence upon assumption of the Office of President of The American Society for Pharmacology and Experimental Therapeutics.

#### Proposed wording of the bylaws:

The President of the American Society for Pharmacology and Experimental Therapeutics, with the concurrence of Council, shall appoint a representative to serve on the Board of Directors of the Federation of American Societies for Experimental Biology for a term of 4 years. This representative shall serve as an *ex officio*, non-voting member of Council for the length of time that s/he serves on the Board of Directors of the Federation of American Societies for Experimental Biology.

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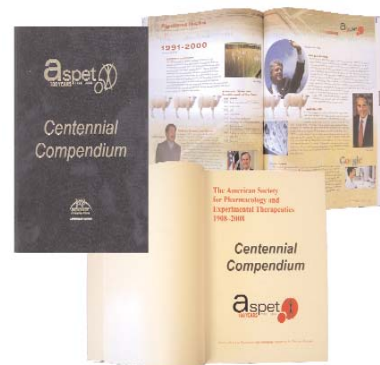
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## Annotated PDFs Coming:

*JPET*, *Pharmacological Reviews*, *Molecular Pharmacology*, and *DMD* authors will soon be able to annotate the PDF file of their page proofs. The compositor for these ASPET titles, Cadmus Communications, a Cengage company, is implementing comment-enabled PDFs for the journals. This will provide a faster, less expensive, and greener option for correcting and returning proofs. Authors will be notified in the page proof cover letter that the PDF is comment enabled.

To take advantage of comment-enabled PDFs, you must have the full version of Adobe Acrobat (not just Reader). Cadmus provided the following 5-step process for using this feature:

1. Indicate deletions in text by highlighting the area and using the Cross-out text tool. Select:
  - Tools menu
  - Commenting
  - Highlight text tool or Cross-out text tool
2. Use the Pencil tool to also indicate deletions in the margin with the proofreading symbol. Select:
  - Tools menu
  - Drawing markups
  - Pencil tool
3. Insert new text using the Call-out tool icon. Select:
  - Tools menu
  - Drawing markups
  - Call-out tool
4. Resize and move the text box so that it appears in white space and does not cover any correction.
5. Use text boxes for responses to your queries.

Authors will continue to have the option of marking up hard-copy proofs and either scanning the corrected copies to send as an email attachment or sending the hard copy by express mail.

## Update on PubMed Central Deposits:

Last fall, ASPET's Board of Publications Trustees voted to deposit with PubMed Central (PMC) the final version of any article funded by a grant from the NIH, the Wellcome Trust, the Howard Hughes Medical Institute, and the councils that constitute the Research Councils UK. Articles authored by NIH staff members will also be deposited by ASPET.

Implementing this service has turned out to be a challenge. The ASPET Journals Department quickly implemented strictly formatted funding footnotes so that articles will be correctly tagged for delivery to PMC. (See each journal's Instructions to Authors for more information.) The tagging process is automated and works from the PDF of the final version of the article.

PMC tests sample files before permitting a publisher to make deposits on behalf of authors. We provided correctly tagged page proofs to hasten the testing process only to find that PMC no longer accepts page proofs. Final published articles are now required for testing, and we had to wait for the March issues of *JPET*, *Molecular Pharmacology*, and *DMD* to supply PMC with correctly footnoted and tagged articles.

The test files are with PMC, and we are waiting for the results. An insufficient number of articles citing NIH funding have been published in *Pharmacological Reviews* and *Molecular Interventions* to supply test files to PMC. Automatic deposits for those journals will have to wait until we can satisfy PMC's testing requirements.

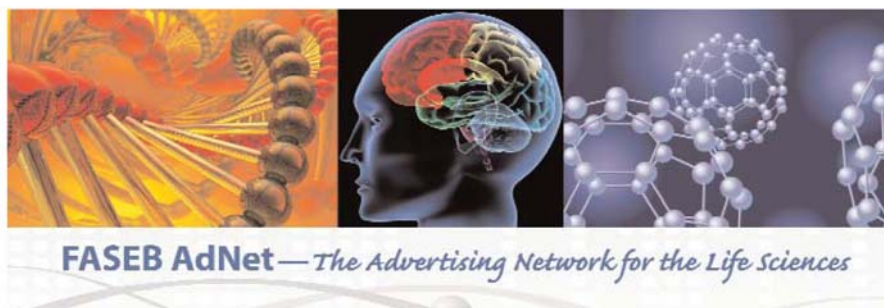


## JOURNALS CONTINUED...

No matter when PMC allows ASPET to make deposits for authors, ASPET will back-deposit all applicable articles starting with the January 2009 issues. However, if within the next two months you are preparing an NIH application, proposal, or progress report and need a PMC reference number for a 2009 article, you should deposit your 2009 article yourself. PMC will not permit ASPET to make deposits for another month or two if this round of tests fails.

Authors, themselves, must deposit articles published in issues dated earlier than January 2009. The ASPET Authorship Responsibility, Financial Disclosure, and Copyright Transfer form allows NIH-funded authors to deposit their accepted manuscripts with PMC and to make them freely accessible there **after 12 months**. Authors funded by the Wellcome Trust, HHMI, and the UK Research Council may deposit their manuscripts in PMC and make them freely accessible there **after 6 months**. ASPET asks authors funded by these organizations to abide by the corresponding **12- or 6-month embargo period** for the PMC site.

As of May 25, 2008, NIH applications, proposals, and progress reports must include the PMC reference number when citing an article that falls under the policy. This policy includes applications submitted to the NIH for the May 25, 2008 due date and subsequent due dates.



### **Need to promote open positions, fellowship opportunities, programs, or conferences in pharmacology?**

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## Evolution Symposium at Experimental Biology 2009

"The Evolution of Creationism" is the subject of the EB Public Affairs Symposium to be held at EB'09 in the New Orleans Convention Center on Monday, April 20, 2009 from 5:00-6:30 pm. Confirmed speakers include notable experts on the subject including: Barbara Forrest, Southeastern Louisiana University, author of *Creationism's Trojan Horse*; Ken Miller, Brown University, author of *Finding Darwin's God* and other books on the battle over teaching evolution; Eugenie Scot, Executive Director of the National Center for Science Education, and author of *Evolution versus Creationism* (a second edition of which is soon to be published); and Judge John E. Jones, the Federal Judge who presided at the landmark *Kitzmiller v. Dover, PA* trial in 2005 that was the first direct challenge brought in US federal courts against a school district that required the presentation of intelligent design as an alternative to evolution. The plaintiffs successfully argued that intelligent design is a form of creationism and that the school board policy violated the Establishment Clause of the First Amendment. Judge Jones' decision has sparked considerable response from both supporters and critics. Some of the subjects to be covered include how supporters of intelligent design use academic freedom and "teach the controversy" principles to advance their agenda and what the future holds for science education.

## House, Senate Economic Stimulus Bills Adds Funds for NIH

The economic stimulus bill is now law and provides NIH with \$10.4 billion. All funds are intended to be spent through September 2010. \$8.2 billion supports scientific research with \$800 million to the Office of the Director and \$7.4 billion transferred to ICs and the Common Fund. \$1 billion allocated to NCRR to support extramural construction and \$300 million for Shared Instrumentation and other capital equipment. An additional \$500 million is for NIH buildings and facilities. \$400 million is for Comparative Effectiveness Research. Stimulus funds will help support different mechanisms, including R01s for two years as well as provide supplements to current grants. New Challenge Grants, aimed to address research problems that can be addressed in two years, will provide \$500k per year. NIH plans to fund a total of \$100-\$200 million in Challenge grants if the scientific demand warrants that support.

The Obama Administration released its FY 2010 budget that includes more than \$6 billion for NIH to support cancer research. The full document is available at: <http://www.gpoaccess.gov/usbudget/fy10/pdf/fy10-newera.pdf>. The Department of Health and Human Services section about NIH reads: "...This funding is central to the President's sustained, multi-year plan to double cancer research. These resources will be committed strategically to have the greatest impact on developing innovative diagnostics, treatments and cures for cancer. This initiative will build upon the unprecedented \$10 billion provided in the Recovery Act, which will support new NIH research in 2009 and 2010." The proposed budget is only a blueprint and does not guarantee NIH these funds. However, the FY'09 bill was passed as an omnibus bill by the House and now moves to the Senate for consideration. This bill provides a \$937 million increase for NIH above the FY'08 level.

## FDA Appropriations

While the economic stimulus package contained no funds for FDA, the FY'09 omnibus bill provides FDA a \$325 million increase over the FY 08 appropriation. For the first time, FDA will receive \$2 billion in appropriated funds. Senate action is pending. The FDA will have been provided with \$620 million in new funds over the last 16 months.

The Administrations FY'10 FDA budget also provides for a substantial but undefined increase. The budget outline requests \$1 billion for FDA's food safety programs but does not indicate whether that includes FDA's food and veterinary centers. If FDA were to ultimately receive an appropriation of \$1 billion just for the food center and its field activities, it would be a 54% percent increase over the 2009 omnibus funding levels.

## ASPET-Advocacy Outreach Program

ASPET is currently developing an advocacy outreach program to educate and train graduate students, post-docs and faculty in pharmacology departments on the importance of grassroots advocacy in support of the NIH. The ultimate goal of the outreach program is to 1) develop a cadre of interested individuals who will more effectively advocate on critical

## PUBLIC AFFAIRS/GOVERNMENT RELATIONS

issues of science funding and science policy and, 2) provide individuals the skills needed to become informed and proactive participants in these issues at whatever institution they may find themselves in the near future. If there is an opportunity for ASPET to make such a presentation in 2009 at your institution please contact Jim Bernstein at [jbernstein@aspet.org](mailto:jbernstein@aspet.org).

### **Special NIGMS Evolution Issue of Findings**

In honor of the year-long celebration of Charles Darwin's work and impact, NIGMS has produced a special, evolution-themed issue of their science education magazine Findings: <http://publications.nigms.nih.gov/findings/>.

### **NIH Provides Funding Data Information**

The NIH is providing detailed funding information for 215 major areas, called the Research, Condition, and Disease Categorization (RCDC) system. The public can use this information to view the total funds spent in each category for the current and previous fiscal years based on grants, contracts, and intramural research. <http://report.nih.gov/rcdc>.

### **ASPET-IOSS Fund Application Guidelines**

The ASPET-IOSS Fund was created to provide support for graduate students and post-doctoral researchers seeking training in integrative whole organ systems sciences. The fund is currently supported by Abbott Laboratories, Merck Research Laboratories, Pfizer and Wyeth Research. The goal is to help augment developing programs (see above) that provide training of students in this field. For additional information visit: [http://www.aspet.org/public/public\\_affairs/pa\\_ ioss.html](http://www.aspet.org/public/public_affairs/pa_ ioss.html).

### **Training Opportunity: NIGMS Summer Short Courses in Integrative & Organ Systems Pharmacology**

The National Institute of General Medical Sciences will once again fund four summer short courses that provide specialized training for using intact organ system and in vivo animal models in the conduct of research. The purpose of each short course is to introduce graduate students, post-docs and Ph.Ds to the knowledge and skills needed for integrative studies of organ systems and intact animals, and the physiological and biochemical responses of these systems to drugs. These critical skills are in short supply. Graduate students and Ph.Ds. with these skills are in great demand in both academic and industrial settings. For additional information contact Jim Bernstein at 301-634-7062; [jbernstein@aspet.org](mailto:jbernstein@aspet.org); [http://www.aspet.org/public/public\\_affairs/pa\\_NIGMS\\_shortcourse\\_awards.html](http://www.aspet.org/public/public_affairs/pa_NIGMS_shortcourse_awards.html).

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**2009 Election Results for Divisions**

**Division for Cardiovascular Pharmacology:**

**Chair-Elect**



**John C. Kermode**

**Secretary/Treasurer-Elect**



**D. Bruce Averill**

**Division for Drug Discovery, Drug Development & Regulatory Affairs:**

**Chair-Elect**



**Kenneth D. Tew**

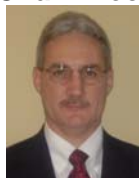
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**Courtney Sulentic**



## MEMBERS IN THE NEWS

**Linda S. Birnbaum, PhD**, the new Director of the National Institute of Environmental Health Sciences (NIEHS), officially assumed her new position on January 18 and now oversees an institute with a \$730 million annual budget. Located in Research Triangle Park, N.C., and part of the National Institutes of Health, NIEHS is home to the National Toxicology Program, which tests chemicals of concern to public health. A full article about Dr. Birnbaum and her new position may be found on [www.cen-online.org](http://www.cen-online.org). Dr. Birnbaum is a past chair of ASPET's Division for Toxicology.

**Nancy J. Brown, MD**, Associate Dean for Clinical and Translational Scientist Development at Vanderbilt University, has been named chief of the Division of Clinical Pharmacology, one of thirteen divisions in the Department of Medicine. Dr. Brown has been a member in ASPET since 1997 and has served on the Women in Pharmacology Committee.



**Kenneth P. Minneman, PhD**, has been appointed Chair of the Life Sciences and Engineering Division and Named Professor of Bioscience at KAUST (King Abdullah University of Science and Technology, Saudi Arabia) effective June 2009. Dr. Minneman is also currently Past-President of ASPET.

## STAFF NEWS



Congratulations to **Crystal Ledger**, Subscriptions Manager, who gave birth to Hudson Stanley Ledger on January 19, 2009. Hudson weighed in at 7lbs 11oz and was 20" long. In February, Crystal brought Hudson by the ASPET office to introduce him to staff. Currently on maternity leave, Crystal has been enjoying her time getting to know her new little guy and spending time with her family. She will be back managing the subscriptions department in March 2009.



**SAVE THE DATE...**

**American Society for Pharmacology & Experimental Therapeutics**  
**2010 Annual Meeting at Experimental Biology**  
**April 24 - 28, 2010**  
**Anaheim, CA**  
**[www.aspet.org](http://www.aspet.org)**

Experimental Biology 2010

aspet  
100 YEARS 1908-2008

Anaheim Photos courtesy of AOCVCB and Mickey Jones

**ASPET WELCOMES THE FOLLOWING NEW MEMBERS:****REGULAR MEMBERS:**

**Bharat B. Aggarwal**, Univ of Texas MD Anderson Cancer Ctr  
**Ilknur Ay, MD, PhD**, Mass General Hospital  
**Kenza E. Benzeroual, PhD**, Long Island Univ/ A&M Schwartz College of Ph  
**Christine E. Canman, PhD**, Univ of Michigan Medical School  
**Geetika Chakravarty, PhD**, Tulane Univ  
**Xiaodong Cheng, PhD**, Univ of Texas Medical Branch  
**Andrea Cignarella, PhD**, Univ of Padua  
**Duncan J. Crawford, MD, PhD**, Tocris  
**Janelle S. Crossgrove, PhD**, Ohio Northern Univ  
**Didier Cussac, PhD**, Institut de Recherche Pierre Fabre  
**Neil W. DeLapp, PhD**  
**Daryl C. Drummond, PhD**, Hermes Biosciences  
**Mehdi A. Fini, MD**, Univ of Colorado Denver  
**Christopher J. Fowler, PhD**, Umea Univ  
**Oliver G. Ghobrial, PhD**, OniBiopharma  
**Pedro J. Gonzalez-Cabrera, PhD**, The Scripps Research Institute  
**Jeffrey M. Harmon, PhD**, Uniformed Services Univ of the Health Sciences  
**Robert D. Harvey, PhD**, Univ of Nevada, Reno  
**Xi He, PhD**, Tufts Univ School of Medicine  
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**Morten Hentzer, PhD**, H. Lundbeck A/S  
**Sandra L. Hrometz, PhD**, Ohio Northern Univ  
**Katsunori Isa, MD, PhD**, Wake Forest Univ School of Medicine  
**L'Aurelle A. Johnson, PhD**, Univ of Minnesota  
**Michelle E. Kimple, PhD**, Duke Univ Medical Center  
**Shiroh Kishioka, PhD**, Wakayama Medical University  
**Huiling Liu, MD, PhD**, Univ of Mississippi Medical Center  
**Dongzhu Ma, MD, PhD**, Univ of Pittsburgh  
**Remi Martin-Fardon, PhD**, The Scripps Research Intsitute  
**Jules T. Mitchel, PhD**, Target Health Inc.  
**R. L. Mosley, PhD**, Univ of Nebraska Medical Center  
**Katherine L. Nicholson, DPhil**, Virginia Commonwealth Univ  
**Jose G. Ortiz, PhD**, Univ of Puerto Rico School of Medicine  
**Yoshihisa Ozoe**, Shimane Univ  
**Andrew D. Patterson, PhD**, National Cancer Institute  
**Charles V. Preuss, PhD**, Univ of South Florida  
**David Ross, PhD**, Univ of Colorado-Denver School of Pharmacy  
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**Yasushi Yamazue**, Tohoku Univ  
**Jaime A. Yanez, PhD**, Schering-Plough Research Institute  
**Jennifer Xiaoqing Yang, RPh**, Ardea Biosciences  
**Irina V. Zabbarova, PhD**, Univ of Pittsburgh  
**Jian-ting Zhang, PhD**, Indiana Univ School of Medicine

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Beatrice A. Nyagode, PhD, Emory Univ School of Medicine  
Rituparna Sinha Roy, PhD, Harvard-MIT Division of Health Sciences & Technology  
Javad Verdi, BS, PhD

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Janet Bodmer, BA, Univ of Cincinnati  
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Dipen A. Vyas, MS, Campbell Univ  
Tingting Wang, MD, Uniformed Services Univ of the Health Sciences  
Hua Wei, Ohio State Univ

## NEW ASPET MEMBERS

**James Whitehurst, MS**, Univ of Colorado Denver Anschutz Medical Campus  
**Qifang Wu, PhD**, Univ of Minnesota  
**Yiyue Zhang, BS**, Rosalind Franklin Univ of Medicine and Science  
**Zhenxian Zhang, MS**, Univ of Toledo College of Pharmacy  
**Wei Zou, PhD**, Michigan State Univ

### **UNDERGRADUATE STUDENT MEMBERS:**

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**Saed Abokor**  
**Agnes M. Bosch-Ramirez**, Turabo Univ  
**Earl Brewley**, Univ of the Virgin Islands  
**Domonique Bulls**, North Carolina A&T State Univ  
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**Dahniel Samuel**, Medgar Evers College  
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**Veronica Santana**, Hillsborough Community College  
**Fiorella Tapia-Ortiz**, Queens College-CUNY  
**Clementine Templeton**, Texas Woman's Univ  
**Caasy Thomas-Porch**, Southern Univ  
**Lisa Zelinski**, Washington State Univ



*ASPET notes with sympathy the passing of the following members:*

*William Diamantis, PhD*

*Werner E. Flacke, MD*

*Philip B. Hollander, PhD*

*Joseph V. Levy, PhD*

*Solomon B. Margolin, PhD*

*John E. Stambaugh, MD, PhD*

*Norman Weiner, MD*



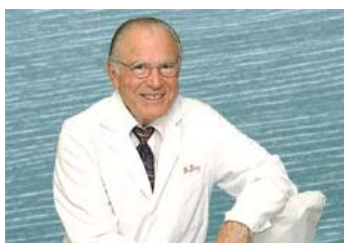


## Philip B. Hollander, PhD

Dr. Philip Ben Hollander, Professor Emeritus, age 84, passed away Monday, 16 February 2009 at Grant Hospital. He retired from The Ohio State University College of Medicine, where he was a professor in the Department of Pharmacology for 31 years. Philip conducted research into interaction of drugs and then electrical activity of the heart, as well as taught medical students and residents. He was a World War II veteran, having served in Europe. His parents, Max and Rose, and his sister, Sylvia Glasband, preceded Phil in death. He is survived by his twin brother, Jerome of Encino, Calif., as well as Pauline Hollander and dearest friend, Elizabeth LaBrie; children, Dr. Marc (Margery Korn) of Bexley, Oh., Carole (Scott) Anderson of Novato, Calif., Daniel (Donna Ettinger) of Houston, Tex., Rachel of Lima, Peru, and Sara of London, England; grandchildren, Rachel, Emily, Scott, Kirk, Seth, Joshua, and Brittany; and one great-grandchild, Olivia.

*Submitted by Laura M. Bohn, PhD, The Ohio State University.*

## Joseph V. Levy, PhD



BURLINGAME, CA - Dr. Joseph Levy, professor and chair of the department of physiology and pharmacology at the University of the Pacific, Arthur A. Dugoni School of Dentistry, passed away from a heart attack on Saturday, January 10 at the age of 80.

A distinguished faculty member at Pacific since 1973, Levy began his career as a professor in pharmacology before becoming chair of the department. He possessed a unique and in-depth knowledge of pharmacology, therapeutics and human physiology which he shared with colleagues and passed on to thousands of students over the years.

“Dr. Joseph Levy was a passionate and brilliant teacher who captivated the imagination of students and residents as well as alumni and professional groups,” said Dr. Arthur A. Dugoni, dean emeritus. “He will be greatly missed for his compassion and genius for teaching.”

Levy received numerous scholarships, awards and fellowships throughout his career, including a Research Career Development Award from the National Institutes of Health, Pacific’s Eberhardt Teacher-Scholar Award and several student teaching awards. He lectured on a variety of topics all over the world, including modern concepts in treating inflammatory conditions, pain management and drug interactions. Levy also authored more than 130 scientific articles in journals and books dealing with physiology and pharmacology.

Levy was an active member of several professional societies including the American Physiological Society, American Society for Pharmacology and Experimental Therapeutics and the Society for Experimental Biology and Medicine. He received his undergraduate degree from Stanford University, his master’s degree from UCLA and postdoctoral training at the University of Washington.

“Dr. Levy carried out his duties and responsibilities in a very quiet fashion and did not seek recognition, even though he deserved it,” said Dr. Patrick J. Ferrillo, Jr., dean. “He will be missed by all.”

Levy is survived by his wife, Joanne; his children Virginia Levy and Suzanne Garrett; and his grandson, Jeffrey Garrett. No memorials or services are planned at Levy’s specific request. The family asks that donations to your favorite funds or charities be made in his name.

*Submitted by Colleen Woo, University of the Pacific.*



## **Announces:**

# **Training Opportunities for Graduate Students and PhDs**

## **NIGMS Summer Short Courses in Integrative and Organ Systems Science**

The National Institute of General Medical Sciences (NIGMS) is funding four summer short courses that provide specialized training for using intact organ system and in vivo animal models in the conduct of research. The purpose of each short course is to introduce graduate students and Ph.Ds to the knowledge and skills needed for integrative studies of organ systems and intact animals, and the physiological and biochemical responses of these systems to drugs. These critical skills are in short supply. Graduate students and Ph.Ds. with these skills are in great demand in both academic and industrial settings.

### **Knock-Out Mice**



### **Animal Models**



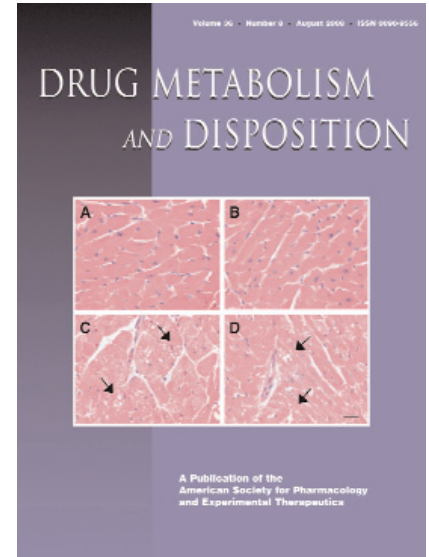
## **ASPET-Integrative Organ Systems Sciences(IOSS) Fund**

The ASPET-IOSS Fund was created to provide support for graduate students and post-doctoral researchers seeking training in integrative, whole organ systems sciences. The ASPET-IOSS Fund will augment developing programs that provide training of students in integrative, whole organ systems sciences. The ASPET-IOSS Fund hopes to contribute to developing infrastructure to sustain and expand training in this critical area of research. Applications will be reviewed upon receipt and on a continuing basis. The ASPET-IOSS Awards are primarily available to support graduate students and post-docs who participate in an industry sponsored internship that furthers the students' training and exposure to integrative, whole organ biology.

**For details and inquiries about the NIGMS Summer Short Course Programs and the ASPET-IOSS Fund, visit the ASPET Home Page at:**  
**[www.aspet.org](http://www.aspet.org)**



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# EACPT

Congress of the European Association for  
Clinical Pharmacology and Therapeutics  
Edinburgh, Scotland 12-15th July 2009

The Edinburgh International Conference Centre (EICC), Scotland



Organizers: Dr Simon Maxwell, Dr Stephen Waring and Professor David Webb

## Themes:

**Translational Medicine**

**Drug Discovery, Development, and Safety**

**New Treatments for Common Diseases**

**Therapeutics in Special Groups**



## Confirmed Speakers Include:

Hans Georg-Eichler (Aus)  
Theodor Guentert (Ch)  
Ingolf Cascorbi (D)  
Matthias Schwab (D)  
Arne Astrup (DK)  
Soren Sindrup (DK)  
Julio Benitez (E)

### Keynotes:

Sir Colin Dollery  
Patrick Vallance  
Garret Fitzgerald  
Alastair Wood

Stephane Laurent (F)  
Nicholas Moore (F)  
Emilio Perucca (I)  
Adam Cohen (NL)  
Theo de Vries (NL)  
Sir Alasdair Breckenridge (UK)  
Sir Michael Rawlins (UK)

Register Interest at: [www.eacpt2009.org](http://www.eacpt2009.org)



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sponsors:

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- American Society for Investigative Pathology (ASIP)
- American Society for Nutrition (ASN)
- American Society for Pharmacology and Experimental Therapeutics (ASPET)

**Abstract Deadline:**  
**Wednesday, November 4, 2009**

2010



## Definitions of Categories of ASPET Membership

**Regular Members:** Any doctoral level investigator who has conducted and is the primary author on at least one publication of, an original study in the area of pharmacology published in a peer-reviewed journal is eligible for membership in ASPET. Exceptions may be made for someone who does not meet the degree requirement but who has made major research contributions to pharmacology. Dues for regular members are \$140/year. Regular members must be nominated by two (2) Regular or Retired ASPET members.

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

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

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

### Regular Member Benefits (Dues \$140):

- Reduced page charges to publish in ASPET journals – pay \$40/page instead of \$80/page and save enough with one four-page article to pay your annual ASPET dues!
- Half-price color fees to publish color figures in ASPET journals
- Free full-text access to all five online ASPET journals, including all back issues
- Free subscription to *Molecular Interventions* (print) and *The Pharmacologist* (online)
- Reduced subscription rates for ASPET print journals
- Reduced registration fees for ASPET meetings
- Sponsorship of papers at the ASPET meeting
- Best abstract awards for young scientists at the ASPET meeting
- Free listing in the FASEB Directory
- Membership in multiple ASPET Divisions for no additional dues.

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

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

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

- Pay no dues their first year.
- Pay only \$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.

### 2009 Publication Subscription Rates for Members

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

- *Journal of Pharmacology and Experimental Therapeutics* (Monthly) - \$210/year
- *Pharmacological Reviews* (Quarterly) - \$89/year
- *Drug Metabolism and Disposition* (Monthly) - \$112/year
- *Molecular Pharmacology* (Monthly) - \$152/year
- *Molecular Interventions* (Bimonthly) – included with dues

### APPLICATION INSTRUCTIONS

Submit the completed Application for Membership form or use the online application form on the ASPET web site at <http://www.aspet.org/public/membership/membership.html>. 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@aspet.org](mailto:rphipps@aspet.org).

**Sponsor Statements:** Submit a statement(s) of qualifications of the applicant from two Regular/Retired Members of ASPET for Regular Membership or from one Regular/Retired Member of ASPET for 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 – TP0309

*Please Complete All Sections:*

### Section 1: Application Details

Application for:

- Regular Membership  
 Affiliate Membership  
 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 \_\_\_\_\_  
 Other \_\_\_\_\_

### Section 3: Personal Information

Name:

Institution:

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: Sponsors (Must be ASPET Members)

Name and email of your sponsor(s): (2 sponsors required for regular membership & 1 sponsor for student and affiliate membership)

*Please have your sponsor(s) send us a brief letter or e-mail outlining your qualifications for Membership in ASPET to the Membership Coordinator, Robert Phipps, ([rhipps@aspnet.org](mailto:rhipps@aspnet.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 Drug Metabolism                    |
| <input type="checkbox"/> Division for Cardiovascular Pharmacology                                       | <input type="checkbox"/> Division for Molecular Pharmacology             |
| <input type="checkbox"/> Division for Clinical Pharmacology, Pharmacogenomics, & Translational Medicine | <input type="checkbox"/> Division for Neuropharmacology                  |
| <input type="checkbox"/> Division for Drug Discovery, Development & Regulatory Affairs                  | <input type="checkbox"/> Division for Pharmacology Education             |
|   | <input type="checkbox"/> Division for Systems & Integrative Pharmacology |
|   | <input type="checkbox"/> Division for Toxicology                         |

### 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, ([rhipps@aspnet.org](mailto:rhipps@aspnet.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 send 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, Regular members pay \$140, Affiliate Members pay \$105.

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