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# **Biomedical Sciences**

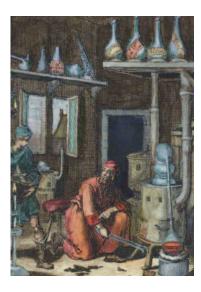
**Graduate Programs** 

Biochemistry, Molecular Biology & Genetics Biomedical Engineering Microbiology, Immunology & Infectious Diseases Molecular Cell & Developmental Biology Molecular Medicine (Physiology, Pharmacology, Pathology) Neuroscience Structural, Computational Biology & Biophysics

www.bims.virginia.edu bims@virginia.edu



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Emilie's climactic change in character recalls the very stuff of alchemy-a transformation that can be imagined but not reasonably effected. Although the character's development perhaps satisfies the need to bring the story to a satisfactory conclusion, I was struck by its artifice. Perhaps the contemporaneously set Galileo's Daughter led me to expect more of a scientifically educated young woman than the

sex, lies, and phlogiston that revolve around *The Alchemist's Daughter*. Admittedly, *Galileo's Daughter* is a biography, and its author, Dava Sobel, sets an unusually high standard for historical scholarship. In the present case, Katharine McMahon acknowledges eighteenth-century realities, such as slave trade and infant mortality rates, but in writing a piece

of fiction, she is perhaps not obligated to aspire to a high degree of rigor in developing historical references and descriptions. Still, comparison of the two books is inevitable, and even in terms of narrative appeal alone, Sobel's book excels. And in terms of sci-



ence, Galileo's Daughter is by far a greater whiz than The Alchemist's.

Katharine McMahon, of England, has taught in secondary schools has lectured in writing skills at the Universities of Hertfordshire and Warwick. <sup>♥</sup> doi:10.1124/mi.7.5.9



**Christie Carrico, PhD,** is Executive Officer for ASPET.

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#### GRADUATE PROGRAMS

#### GRADUATE PROGRAMS IN BIOMEDICAL SCIENCES (BIMS) • PHD PROGRAMS IN PHARMACOLOGY AND NEUROSCIENCE • UNIVERSITY OF VIRGINIA

The University of Virginia offers a number of graduate admissions portals that enable students to pursue their research interests in an interdisciplinary manner. During their first year in the BIMS program, students have the opportunity to select three faculty members with whom they may execute research rotations. While these experiences may lead to PhD degrees in pharmacology or neuroscience, they could just as easily lead to degrees in pathology, biochemistry or a number of other disciplines. The quality of UVa's graduate programs is reflected in the fact that many, including Pharmacology and Neuroscience, have been peer-reviewed and are funded by the National Institutes of Health. Full details on our admissions portals, graduate programs, NIH training programs, stipend level, along with a searchable "Research Faculty Directory" may be found at: www.bims.virginia.edu.

#### PHARMACOLOGY AND INTERDISCIPLINARY TOXICOLOGY GRADUATE PROGRAMS • UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES

The Department of Pharmacology and Toxicology at UAMS in Little Rock, Arkansas, invites those interested in earning the PhD degree in Pharmacology or Interdisciplinary Toxicology to learn more about these programs at http:// www.uams.edu/pharmtox. The department offers research emphasis areas in cardiovascular pharmacology and hypertension research, neuropharmacology and neurodegenerative disease, behavioral pharmacology and drug abuse therapy, hepatic and renal pharmacology and toxicology, and oxidative stress. We offer all our students a competitive stipend and tuition waiver. For additional information call Dr. Philip Mayeux at 501-686-8895 or e-mail at prmayeux@uams.edu.

#### CLASSIFIED ADVERTISING

Position openings, training opportunities, and conference announcements can be promoted as line ads in *Molecular Interventions*. *MI* reaches a wide variety of researchers that work in pharmacology and related areas, including all members of ASPET.

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## Joins in Honoring the ASPET Centennial

Programs in Pharmacology & Physiology Contact: <u>Robert.Moreland@drexelmed.edu</u>

Programs in Drug Discovery & Development Contact: <u>JBarrett@drexelmed.edu</u>

#### georgetown pharmacology

#### Ph.D. Degree Program M.S. Degree Program

**The Department of Pharmacology** is located in the Medical Center Campus of Georgetown University in Washington, DC. Our department offers both <u>Ph.D.</u> and <u>M.S.</u> degree programs to students desiring comprehensive and rigorous training in the field of pharmacology.

In their research, faculty at Georgetown use physiological, biochemical, and molecular approaches to pharmacology, which is conducted in man, intact animals, isolated organs, and cultured cells.

Georgetown Medical Center

http://pharmacology.georgetown.edu/



## EMORY | GRADUATE

#### Molecular & Systems Pharmacology

The Molecular and Systems Pharmacology graduate program at Emory University offers broad training in the biomedical sciences and focused training in pharmacology for students interested in learning how the drugs of today work and how the novel therapeutics of tomorrow can be developed. Particular strengths within the MSP graduate program at Emory include neuropharmacology, behavioral pharmacology cancer biology, AIDS research, cardiovascular pharmacology, toxicology, and chemical biology. Ph.D. training in the Emory MSP program provides students with an ideal preparation for successful careers in the biotechnology and pharmaceutical industries as well as in academic research, teaching, government research, patent law and other disciplines that depend upon knowledge of fundamental pharmacological principles. For more information, please see the program website: http://www.pharm.emory.edu/MSP



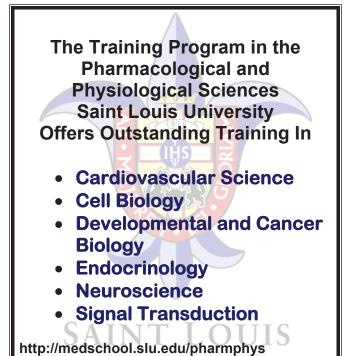
#### LOYOLA MEDICINE

Loyola University Chicago Stritch School of Medicine

#### **GRADUATE STUDIES IN PHARMACOLOGY**

The department of Pharmacology and Experimental Therapeutics offers programs that lead to MS, PhD, and MD/PhD degrees in Pharmacology. Our well-funded departmental faculty form an integral part of the University's

Cardiovascular, Neuroscience, Burn Shock Trauma, and Oncology Institutes and conduct molecular, cellular and systems based research. Our research success is due, in part, to collaborations within the department, the University, the Chicagoland area and beyond. Our graduates currently pursue careers as independent scientists in academia and industry as well as development, drug marketing, and patent law. For more information, visit our website at http://www.luhs.org/depts/Pharmacology or call us at 708-216-3261.





Tulane University

### DEPARTMENT OF PHARMACOLOGY

TULANE UNIVERSITY SCHOOL OF MEDICINE

Ph.D. Program in Biomedical Sciences with an emphasis in Pharmacology

One Year M.S. degree program

For more information visit: www.pharmacology.tulane.edu

Tulane University Health Sciences Center Department of Pharmacology 1430 Tulane Avenue, Ste. 3700; SL.83 New Orleans, LA 70112-2699 tel. 504/988-5444 toll free. 800/347-5935 fax. 504/988-5283

Graduate Research Training Opportunities in the Pharmacology Department Uniformed Services University Bethesda, Maryland, USA

Research programs in:

- G protein coupled receptor signaling mechanisms
- RGS proteins and opioid receptor function
- Neural mechanisms in temporal lobe epilepsy
- Calcium signaling and dendritic structure in neurons
- Cytokine signaling in the central nervous system
- Neuropeptide regulation of neural function
- Tissue repair and remodeling in lung injury
- Steroid hormone regulation of gene expression (see http://www.usuhs.mil/pharmology)

Through Interdisciplinary Graduate Programs in: Molecular and Cell Biology Neuroscience

For more information, contact: Dr. Suzanne Bausch Graduate Program Director Department of Pharmacology Uniformed Services University sbausch@usuhs.mil



USU offers stipends and free tuition for qualified students. Graduate programs are open to all legal residents of the USA.





The College of Medicine's Graduate Program in Medical Pharmacology

is oriented towards modern pharmacology, its uses in the treatment and diagnosis of human diseases and disorders. Emphasis is placed on the physiological, biochemical and molecular mechanisms of drug actions and toxicity. Students choose an area of research from the fields of molecular, neural, behavioral, gastrointestinal, immunological, cardiovascular, respiratory, cancer or ocular pharmacology. For more information: www.pharmacology.arizona.edu

#### The College of Pharmacy's

**Graduate Program in Pharmacology & Toxicology** provides training leading to the Ph.D. degree in Pharmacology & Toxicology. The program trains students in state-of-the-art approaches in basic research in pharmacology, toxicology, environmental toxicology, chemical pharmacology, and proteomics and closely related sub-disciplines. It prepares students for careers in independent research or related careers in academia or government. For more information: www.pharmacy.arizona.edu/programs/graduate/pharmtox

#### **Graduate Studies in Pharmacology**



UCSD began graduate studies in Pharmacology at UCSD not long after the start of the School of Medicine in 1968. An NIGMS Pre-doctoral Training Grant was awarded in 1974 and continues to be one of the largest support mechanisms for students with interests in the pharmacological sciences. More than 120 students have received Ph.D. degrees with Pharmacology faculty and have risen to positions of prestige and leadership in academic institutions and the pharmaceutical industry. Pharmacology became the first basic science department in the School of Medicine in 1985 and now boasts a distinguished faculty well represented in the National Academy of Science and the Institute of Medicine. The Skaggs School of Pharmacy & Pharmaceutical Sciences (SSPPS) opened in 2000, making UCSD the first researchintensive institution to establish a school of pharmacy in several decades. Students interested in training opportunities in pharmacology should apply through Biomedical Sciences Graduate Program:

Department of Pharmacology University of California, San Diego 9500 Gilman Drive, Dept. 0636 La Jolla, California 92093-0636 http://pharmacology.ucsd.edu





Skaggs School of Pharmacy and Pharmaceutical Sciences University of California, San Diego 9500 Gilman Drive, MC 0657 La Jolla, Ca 92093-0657

http://pharmacy.ucsd.edu

Cincinnati

#### University of Cincinnati **College of Medicine** Pharmacology & Cell Biophysics Department Molecular, Cellular & Biochemical Pharmacology **Doctoral Program**

The programs of study, leading to the Ph.D. degree, offer faculty expertise in a wide range of areas: cardiovascular sciences, immunopharmacology, neuropharmacology, molecular pharmacology (cell-membrane receptors), molecular biology of drug receptors, ion pumps and exchangers, extracellular nucleotides and purinergic receptors, contractile and regulatory proteins, and protein chemistry and structure. Experimental disease and transgenic models are used in research. Models include single cells, tissues, organs, and whole animals. There is an established emphasis on the use of contemporary techniques, particularly in the area of molecular genetics.

Applicants with undergraduate degrees in biology, biochemistry, biophysics, biomedical engineering, cell biology, chemical engineering, chemistry, life sciences, neuroscience, and pharmacology would be well prepared for this program. The curriculum includes courses in cell and molecular biology, physiology and pharmacology, supplemented with advanced topic electives.

Financial Aid: Tuition, health insurance and competitive stipends are available for highly qualified students.

Please see our website for full program details. 231 Albert Sabin Way P.O. Box 670575 Cincinnati OH 45267-0575 Tel: 513-558-2333 or 558-2366 Fax: 513-558-1169 Email: thybern@ucmail.uc.edu www.med.uc.edu/pharmacology/

## department of pharmacology school of medicine university of colorado

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#### Ph.D. in Pharmacology and Toxicology

#### The University of Louisville is an exciting place to be.

Over the last decade, the University of Louisville has had an enormous expansion in biomedical research. As a Pharmacology and Toxicology graduate student, you will have access to leading scientists in research in the fields of cancer, cardiovascular disease, diabetes, neuroscience, environmental toxicology and many other areas. We are looking for bright, creative students to join us. Full fellowships that include health insurance, payment of tuition, and a nationally competitive stipend are available through an NIH predoctoral training grant and other sources.

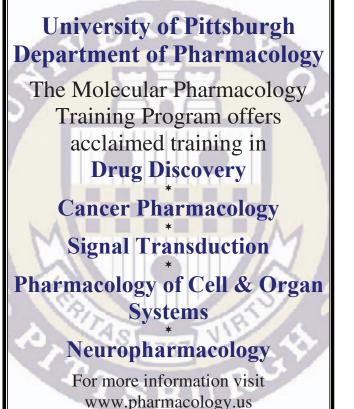
#### For more information, contact:

Graduate Program Department of Pharmacology & Toxicology School of Medicine University of Louisville Louisville, KY 40292 Phone: 502-852-6255 www.louisville.edu/medschool/pharmacology Email: Sharon Carpenter: sharon@louisville.edu The University of Louisville is an equal opportunity institution.

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#### Department of Pharmacology University of Tennessee Health Science Center

#### Graduate Studies in Pharmacology, Molecular Therapeutics and Cell Signaling

The Department of Pharmacology offers a broad training program for Ph.D. students in pharmacological sciences including behavioral neuroscience and molecular biology. The primary research areas include the Neurobiology of Addiction and Signaling Systems and Transcriptional Regulation in Cardiovascular and Metabolic Disease. The Department has a number of well funded faculty and excellent physical facilities. Interested applicants should apply through the Interdisciplinary Program for Biological Sciences (IPBS) at www.utmem.edu/grad/IPBS/index.html. For further information regarding the graduate program and admission requirements contact

Dr. Edwards Park at epark@utmem.edu

The University of Tennessee is an EEO/AA/Title VI/Title IX Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.

## VCU Pharmacology & Toxicology

Commonwealth Un Ranked in the top 10 in NIH funding, our department offers MS and PhD candidates a rich interdisciplinary environment in the laboratories of over 50 faculty, with research strengths in drug abuse, cancer biology, neuroscience, toxicology, molecular biology and organ system biology. Modern, well-equipped laboratories in one of the largest medical centers in the US stimulate cutting edge, collaborative research. Our students have won important awards for their research and entered successful careers upon graduation. We provide to PhD students a highly competitive annual stipend and tuition and fees coverage. Our PhD students typically graduate in less than five years, well below the national average. For more information, please visit our website at www.vcu.edu/pharmtox/ or call 804-828-8400.

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### PLAN ON ATTENDING

The American Society for Pharmacology and Experimental Therapeutics

## **Centennial Celebration at Experimental Biology 2008**

## San Diego, CA, April 5 - 9

# FEATURING...

### SPECIAL CENTENNIAL SYMPOSIA:

P450s: Structure, Function, In Silico Predictions Spkrs: Anthony Lu, Paul Ortiz de Montellano, William Atkins, Eric Johnson, Lovisa Afzelius

Development of Inhibitors of the Soluble Epoxide Hydrolase as a Novel Treatment for Hypertension, Vascular Inflammation and End Organ Damage

Spkrs: Michael Arand, Heather Webb, Bruce Hammock, William Campbell, Darryle Zelden, John Imig

New Experimental Approaches to Treatment of Schizophrenia: Moving Beyond Monoamine Antagonists Spkrs: Carol Tamminga, Darryl Schoepp, Jeffrey Conn, Craig Lindsley

> The G-Whizards of GPCR/G-Protein Signaling Spkrs: Alfred Gilman, Lee Limbird, Robert Lefkowitz, Heidi Hamm

Chance Favors the Prepared Mind: A Nobel Perspective Spkrs: Alfred Gilman, Sir James Black, Louis Ignarro, Ferid Murad, Robert Furchgott

The Obesity Epidemic: Pharmacological Challenges Spkrs: Matthias H. Tschop, Francis P. Kuhajda, Stephen Bloom, Xavier Pi-Sunyer, David S. Weigle

Drug Discovery Paradigms: Past, Present, and Future

New Concepts in an Old System: Renin-Angiotensin System Blockade as Therapy for General Cardiovascular Disease

Pharmacotherapies for Drug Abuse: What We Have Learned from Cocaine

ABC Transporters: From Drug Resistance to Drug Response

Julius Axelrod Symposium: Celebrating a Pioneer Pharmacologist and His Legacy: Creating New Drugs by Revealing Mechanisms of Drug Action in Fundamental Biological Processes



#### **PARTIES:**

Opening Ceremony at EB 2008

featuring music, food, and excitment

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held at a special attraction in San Diego

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Nobel Laureate Reception For

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## PARTICIPATING SOCIETIES

ΑΑΑ **American Association of Anatomists** 

ΑΑΙ The American Association of Immunologists

> APS **The American Physiological Society**

ASBMB American Society for Biochemistry and Molecular Biology

> ASIP **American Society for Investigative Pathology**

> > ASN **American Society for Nutrition**

ASPET **American Society for Pharmacology** and Experimental Therapeutics







