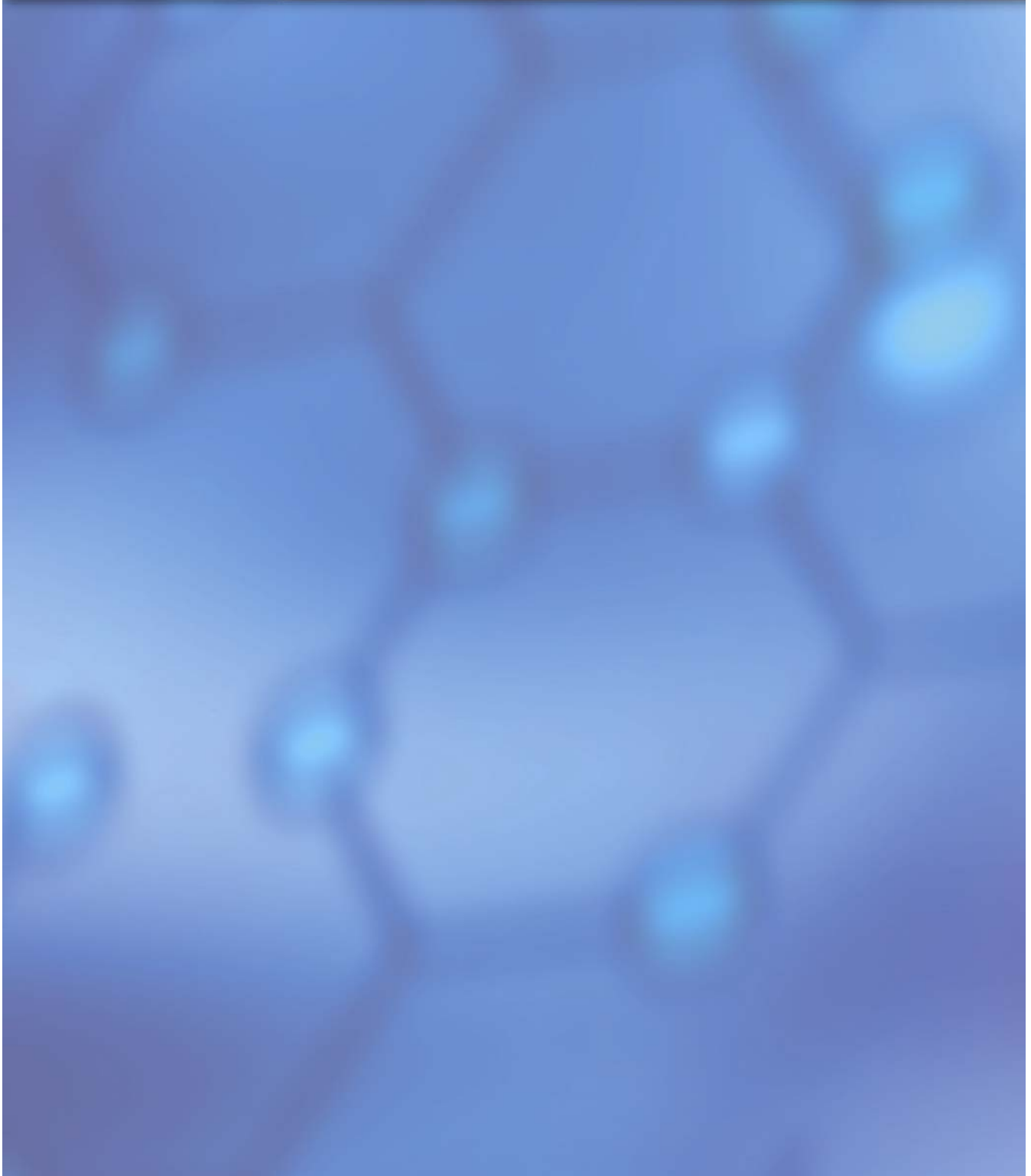


**University
of the
Sciences**

Experts Guide



Welcome

The University of the Sciences in Philadelphia Experts Guide contains information regarding many faculty who have a wealth of expertise and knowledge on various topics. The University's experts are experienced educators and trained practitioners. Some are research scientists, some have worked in the industry and some currently maintain a private practice. They keep up with their respective fields of expertise, publish their works and research in current journals, and are leaders of professional organizations.

If you have any questions, are looking for an expert from an area of science and healthcare not listed here, or would like help in reaching a University of the Sciences professor to speak to for a potential story, please contact:

Brian Kirschner
Senior Director, News & Public Relations
215- 895-1186
b.kirschner@usp.edu

Online Resources

The University maintains an active Experts Blog at uscienceblogs.typepad.com/experts that contains insights and commentaries from our experts on pharmaceutical science, healthcare, and educational topics.

You can also follow the latest University news on [Twitter.com/usciences](https://twitter.com/usciences) or at www.usp.edu/newsEvents.

Areas of Focus

The University of the Sciences Expert Guide contains faculty who have an expertise in the following areas:

Biochemistry
Biology
Exercise Science and Wellness Management
Health Policy and Public Health
Healthcare Business
History
Occupational Therapy

Pharmaceutical Sciences
Pharmacognosy (natural products)
Pharmacology/Toxicology
Pharmacy Practice and Administration
Physical Therapy
Physics

Expert Topics

<i>Topic</i>	<i>Page</i>	<i>Topic</i>	<i>Page</i>
Adv. neurological rehab procedures	26	Infectious disease	22
Alcohol and substance abuse	23	Long-term care	13
Alternative medicine	17	Managed care pharmacy	23
Alzheimer's disease	13	Medical sociology	12
Antibiotic design	20	Medicare	13
Antibiotic therapy	22	Medication adherence/compliance	23
Apocalypse	28	Medication systems	24
Aspects of play	16	Medicinal chemistry	19
Biophysical chemistry	18	Molecular biology	4
Cancer	5	Molecular biology	20
Cell biology	5	Nature of time and time travel	28
Central nervous system physiology	21	NDCR 2009	22
Chaos theory	28	Neuropharmacology	21
Children with special needs	15	New drugs	22
Children's health policies	10	New planets	28
Community health	10	Nutraceuticals	17
Community mental health services	12	Nutrition	17
Computer-aided drug design	4	Organic chemistry	19
DNA replication	20	Orthopedics	25
Drug interactions	22	Over the counter medications	22
Drug targeting	19	Particle physics	28
Early universe	28	Patient noncompliance	22
Emergency preparedness	24	Pharmaceutical business	8
Environmental health policy	11	Pharmaceuticals marketing	9
Exercise conditioning/training	6	Physical chemistry	18
Extraterrestrial life	28	Pharmacy Practice	23-25
Flu pandemic	24	Post-stroke therapeutic interventions	26
Geriatric and pediatric OT	16	Relativity	28
Geriatric syndromes/disorders	13	Religious views of science	7
Global health	11	Russian history	7
Global water issues	11	Scientific predictions	28
Health communication	14	Sports injuries	25
Health literacy	14	The Big Bang theory	28
Health policy reform	10-13	Thermodynamics	18
Herbal medicine	17	Urban sociology	12
Homelessness and housing	12	Wellness promotion	6
		World religions	7



Randy Zauhar, PhD

Associate Professor of Biochemistry

Expertise

Computational chemistry, computer-aided drug design, molecular biophysics, modeling, software development.

About Dr. Zauhar

Before joining the University in 1998, Dr. Zauhar was a senior research investigator at the University of Missouri and a scientist at Tripos Inc. in St. Louis, Mo. He has lectured courses in molecular biology techniques, biological science, biochemistry, molecular modeling, and computational biology. Additionally, he developed and teaches a course on computer-aided drug design, which represents the focus of his current research efforts.

Dr. Zauhar has extensive experience with numerical algorithms and data mining methods, including finite element and boundary element methods, neural networks, support vector machines, and optimization. He has many years of experience in software applications development, using both native languages (C, objective C, Fortran) and scripting languages (Perl, Mathematica). In addition to his expertise in graphics programming (OpenGL) and web development (using Javascript, PHP and MySQL), Dr. Zauhar is proficient in Apple's OS X development environment (Cocoa).

Dr. Zauhar received his PhD and MA in molecular and cell biology from Penn State University and his BS/BA in physics and anthropology from Eastern Washington University.



Suzanne Murphy, PhD

Professor of Biology

Director of Pre-Health Professions Programs

Dean of Misher College of Arts and Sciences

Expertise

Cell biology, cancer, ras oncogene, physiology, signal transduction, hyper-osmotic shock, cytoskeleton, advisement of students planning to enter health professions (e.g. medicine dentistry, veterinary medicine)

About Dr. Murphy

Dr. Murphy's research interests include analysis of perturbations in signal transduction pathways resulting from ras oncogene expression and the relationship between oncogenesis and heat shock protein expression.

Dr. Murphy is past-president of the Northeast Association of Advisors for the Health Professions and an executive officer of the National Association of Advisors for the Health Professions. She is an active member of the American Society for Cell Biology, American Association for the Advancement of Science, Association for Women in Science, and Association for Women in Cancer Research.

Dr. Murphy earned her PhD in pathology from Hahnemann University School of Medicine and completed her post-doctoral fellowship at the Albert Einstein Medical Center Department of Pediatrics and SmithKline and French Laboratories Corp. Department of Tumor Biology. She received her MA in biology from Bryn Mawr College and her BA in biology from Rosemont College.



**Karin Richards, MS, CWPC, ACSM,
ACE-DPT/GFI**

*Director of the Exercise Science and Wellness Management Program
Director of the Health Sciences Program*

Expertise

Wellness promotion, general exercise conditioning.

About Ms. Richards

Karin Richards has more than 14 years of professional experience in corporate, university, and community-based fitness and wellness. She is nationally certified by the American College of Sports Medicine (ACSM) and the American Council on Exercise (ACE) as a Personal Trainer and Group Exercise Instructor. She is also a certified Wellness Program Coordinator (CWPC), American Red Cross CPR/AED/First Aid Instructor, National Association of Safety Professionals (NASP) Ergonomics Technician, and a YogaFit certified Instructor.

She currently trains clients and teaches group exercise classes in various locations in Philadelphia and Southern New Jersey. Richards obtained an MS in sport management from Slippery Rock University and is currently pursuing her doctorate in health policy.



Roy Robson

*Director of the Honors Program
Professor of History*

Expertise

Russian culture and society, Russian religious life, Russian history, world religions, religious views of science.

About Dr. Robson

Dr. Robson's areas of focus include the history of Russia/USSR, religion and society in Russia, religious and scientific cosmology, and comparative world religions. He is the author of three books and many articles. In addition, he is series editor in Orthodox Christianity for Northern Illinois University Press and writes world religion textbooks for Pearson/Prentice Hall Publishing. He has lectured across the USA, Russia, the former USSR, Lithuania, Great Britain, Poland, and Finland. Recently, he has begun to study the noted Russian iconographer Pimen Sofronov.

Dr. Robson received his PhD in history at Boston College, his MA in history at the University of Pittsburgh, and his BA in English/History at Allegheny College.



William L. Ashton, MEd

*Associate Provost and Vice President of Strategic Business Development
Founding Dean, Mayes College of Healthcare Business and Policy
Assistant Professor of Pharmaceutical Business*

Expertise

Pharmaceutical sales and marketing, management, distribution, contracting, and pricing for pharmaceutical and biotech products, reimbursement issues in health policy, government affairs, sales, marketing, learner-centered methods of teaching.

About Mr. Ashton

Ashton is a Fortune 100 senior executive with more than 28 years experience in biotechnology and pharmaceutical leadership and management. Ashton recently retired from a lengthy career at Amgen Inc., the world's leading biotech firm, where he served as vice president of corporate and government affairs (2003–2005) and vice president of sales (1996-2003), and was directly responsible for strategy development and execution of plan of action for key government agencies including Centers for Medicare and Medicaid Services, Office of Inspector General, General Accounting Office, Office of Management and Budget, and MedPAC.

He is on the boards of the National Osteoporosis Foundation, Neogenix Oncology, Friends of the National Library of Medicine (NIH), and a commissioner for the Medical Representatives National Certificate Commission. He received his BS from California University of Pennsylvania and his MS from the University of Pittsburgh.



Stephanie A. Zarus, PharmD

*Assistant Professor of Pharmaceutical Marketing and Healthcare Business
Associate Dean of Entrepreneurial Activities*

Expertise

Leadership, entrepreneurship, strategy, performance improvement.

About Dr. Zarus

Dr. Zarus joined the University in July 2007 and has played an integral role in founding and developing Mayes College of Healthcare Business and Policy where she oversees the College's internship, fellowship, and scholarship programs, as well as leadership initiatives including new business development, corporate partnerships, and marketing activities.

In 1996, she and colleagues started Hospice Pharmacia, LLC, a privately owned pharmacy service provider for terminally ill patients, and transitioned the business to excelleRx, a technology-based medication management company. She served as the vice president for quality initiatives, the marketing development officer, and later as the chief operating officer and chief performance officer, before merging the company with Omnicare, a publicly owned national long term care pharmacy provider. She was recognized as one of New Jersey's Best 50 Women in Business in 2006.

Dr. Zarus, who holds a doctor of pharmacy from University of the Sciences, previously served as vice president for professional programs and associate dean for advanced learning at the University where she founded the School for Advanced Learning and was primarily responsible for the development and delivery of corporate education for healthcare professionals.

Healthy Policy and Public Health



Glenn Beamer, PhD

Director of the Master of Public Health Program

Associate Professor of Health Policy

Expertise

Community health and development.

About Dr. Beamer

Dr. Beamer's research interest include community health and development, as well as health policy issues related to children. He is currently working on a worker-based model for community development and retirement security, and a comparative evaluation of state-level welfare and health policy reform efforts. Dr. Beamer was a Robert Wood Johnson Scholar in Health Policy Research at the University of California at Berkeley and the University of California at San Francisco from 1997 through 1999.

Before joining University of the Sciences, he served as director of the Margaret Chase Smith Policy Center at the University of Maine. He has also served as assistant professor of public policy at The Edward J. Bloustein School of Planning and Public Policy at Rutgers University. Dr. Beamer's teaching focuses on health policy, community health and development, and community-based health research.

Dr. Beamer is a graduate of the University of Michigan with a MA and PhD in political science. He received a BA from the College of William & Mary.

Healthy Policy and Public Health



Shannon Márquez, MEng, PhD

Executive Associate Dean for Academic & Faculty Affairs, Mayes College of Healthcare Business and Policy

Chair, Department of Health Policy & Public Health

Associate Professor of Public Health

Expertise

Global health, environmental burden of disease, environmental health policy, global water issues.

About Dr. Márquez

An accomplished scholar and experienced administrator, Dr. Márquez' work has garnered local, national, and international recognition. She leads in the field of global health, with an expertise in safe water systems, agricultural health and water-related illnesses, and the environmental burden of disease in developing countries of Africa.

Currently, her research is on the development of risk assessment and GIS models to evaluate sanitary risk factors and water related diseases; the implementation of household-based water treatment and safe storage schemes in sub-Saharan Africa; partnerships for community-driven health research to address environmental justice in underserved communities; and access to water and sanitation, and environmental improvements of the SAFE Strategy to eliminate trachoma disease, one of the world's leading causes of preventable blindness.

Dr. Márquez currently serves on the Philadelphia Board of Health, and she was associate professor of public health, director of the master of public health program, and director of the Center for Global Health in the Temple University College of Health Professions.

Dr. Márquez holds international academic appointments on The University of The Gambia Faculty of Medicine, and The Gambia College School of Public Health, in The Gambia, West Africa, and the Université of Gaston-Berger in Senegal. Previously, she directed an international research, exchange, and training program funded by the US Department of State, the NIH Fogarty International Center, and Pioneer Foundation.

Dr. Márquez earned her PhD in environmental health sciences and engineering, with a focus in environmental management and policy, from the Gillings School of Global Public Health at the University of North Carolina-Chapel Hill, a master's in environmental engineering from Texas A&M University.

Healthy Policy and Public Health



Stephen Métraux, PhD

Associate Professor of Health Policy

Expertise

Community mental health services, homelessness and housing, low income housing (persons with disabilities), medical sociology, urban sociology, behaviors related to HIV/AIDS (among drug users).

About Dr. Métraux

Dr. Métraux's research interests centers around urban health, especially in the context of issues such as homelessness and housing, community mental health, and incarceration and prisoner reentry. These interests were shaped by eight years working in homeless and indigent substance abusing populations, after which he received his PhD in sociology at the University of Pennsylvania. Dr. Métraux's research currently involves using large administrative data sets to assess patterns of services use in homeless, mental health, and corrections systems and consults with local jurisdictions to evaluate programming in these areas and their related costs.

Dr. Métraux's regular speaking topics include dynamics of homelessness, the impact of supportive housing, corrections services and shelter use, and serious mental illness.

In addition to teaching in the University's Health Policy Program, Dr. Métraux is an adjunct senior fellow at the University of Pennsylvania's Leonard Davis Institute of Health Economics and holds adjunct faculty positions in Penn's Psychiatry department and Urban Studies program.

Healthy Policy and Public Health



Richard Stefanacci, DO, MGH, MBA, AGSF, CMD

CMS Health Policy Scholar 2003-04

Director of The Institute for Geriatric Studies

Associate Professor of Health Policy

Expertise:

Medicare, long-term care, geriatric syndromes and disorders, Alzheimer's disease.

About Dr. Stefanacci

As an internist/geriatrician, Dr. Stefanacci has a longstanding interest and commitment to geriatric health, particularly the frail elderly and long-term care. He is the director of the University's Institute for Geriatric Studies, which focuses squarely on the critical issues of business and policy affecting geriatric health by uniting resources to provide education and services.

As a former Centers for Medicare & Medicaid Health Policy Scholar, Dr. Stefanacci brings a substantial understanding of the issues faced by seniors. Dr. Stefanacci continues to practice geriatric medicine through NewCourtland Elder Services and participates in Medicare and Medicaid policy development.

Dr. Stefanacci's regular speaking topics include the Medicare reform issues, disease management, long-term care, and geriatric healthcare systems.

He received his BA in economics at Boston College, his medical degree and MGH from AT Still University, and his MBA from Keller. In addition, Dr. Stefanacci is a fellow of both the American Geriatric Society and College of Physicians of Philadelphia.



Claudia Parvanta, PhD

*Chair of the Department of Behavioral & Social Sciences
Professor of Anthropology*

Expertise:

Cultural context for health related behavior, health communication, health literacy.

About Dr. Parvanta

Dr. Parvanta's research interests include health behavior change, health and risk communication, and global disease prevention and control. She served as the director of health communication at the Centers for Disease Control and Prevention (CDC) from 1999-2005.

Recently, Dr. Parvanta co-authored *Essential Public Health Communication and Informatics* (Jones and Bartlett Publishers, LLC), part of The Essential Public Health Series.

Dr. Parvanta received her PhD from the University of Pennsylvania, where she also received the MA and BA in anthropology.

Occupational Therapy



Roger Ideishi, JD, OT/L

Associate Professor of Occupational Therapy

Expertise

Coordination of care for children with special needs, outcomes of community/ecological based practices, community service-learning.

About Mr. Ideishi

Ideishi's research interests include child health services and community engagement for health. He has directed several community-based, grant-funded service learning projects, focusing on the development of play skills and child health.

Ideishi received his BS in occupational therapy from the University of Washington and a JD in law from Temple University.

Occupational Therapy



Paula Kramer, PhD

Chair and Professor of Occupational Therapy

Expertise

Occupational therapy, pediatric and geriatric occupational therapy, aspects of play.

About Dr. Kramer

Dr. Kramer's clinical practice in pediatrics includes experience in early intervention and school-based settings. Dr. Kramer has written extensively on pediatrics and frames of reference, and has co-authored several books and chapters on pediatric assessment and evaluation that are widely used in occupational therapy programs across the country.

Most recently, Dr. Kramer completed investigating ways to enhance the quality of life for the well elderly in assisted living, through the use of occupational and physical therapy. This project was funded by a grant from the PHS Foundations of New Jersey, Inc. She has been interviewed and referenced numerous times by print and broadcast media.

She received her PhD, MS, and BS all in occupational therapy from New York University.



Ara DerMarderosian, PhD

Professor of Pharmacognosy

Research Professor of Pharmacognosy

Expertise

Herbal medicine, natural products, ginseng, complementary and alternative medicine, pharmacognosy, nutraceuticals, hallucinogens, poisonous plants, ethnobotany, nutrition.

About Dr. DerMarderosian

Dr. DerMarderosian is a noted pharmacognosist, scientist, professor, author, and lecturer. He has been utilized as a resource for numerous print, broadcast, and web stories as an expert.

With more than 45 years of experience in natural products and medicine, Dr. DerMarderosian is routinely recognized for his significant contributions to society in the fields of pharmacognosy, pharmacology, veterinary medicine and podiatry. His research interests include isolation and identification of bioactive substances from natural products, including plants and animals from terrestrial and marine sources, studies of the medical value of foods (nutraceuticals), and genetic and chemical identification of drug plants. He currently serves as the editor of *Facts and Comparison's The Review of Natural Products*.

Dr. DerMarderosian earned his PhD in pharmaceutical sciences at the University of Rhode Island, his MS in pharmaceutical chemistry and his BS in pharmacy at the Massachusetts College of Pharmacy.

Pharmaceutical Sciences



Rodney J. Wigent, PhD

Dean of the College of Graduate Studies

Director of Research

Research Professor of Pharmaceutics

Expertise

Biophysical chemistry, pharmaceutical chemistry, physical chemistry.

About Dr. Wigent

Dr. Wigent's research interests focus on three areas: solution thermodynamics, physical biochemistry, and pharmaceutics. Specifically, these include solution calorimetry and thermodynamics, thermodynamics and kinetics of drug excipients, and biophysical chemistry of DNA topology/structure.

He received his PhD in physical chemistry from Michigan Technological University.

Pharmaceutical Sciences



Adeboye Adejare, PhD

Chair of the Department of Pharmaceutical Sciences

Director of the Pharmacology and Toxicology Graduate Program

Professor of Pharmaceutical Sciences

Expertise

Medicinal chemistry, organic chemistry, mechanisms of neurodegeneration, drug targeting, pharmaceutical profiling, chemistry of fluoroaromatic compounds, in vitro models of drug absorption.

About Dr. Adejare

The major therapeutic areas Dr. Adejare focuses on are N-methyl-D-aspartate (NMDA) receptor antagonists and gamma-secretase inhibitors. These two mechanisms have been implicated in neurodegeneration as observed in stroke and Alzheimer's disease. Other possible uses of NMDA receptor antagonists include treatment of epilepsy and neuropathic pain. His efforts have resulted in more than 30 publications, a patent, and more than 80 presentations at meetings, including invited presentations at national and international conferences.

Dr. Adejare received his PhD in medicinal chemistry from The Ohio State University and was a fellow at the National Institutes of Health prior to beginning an academic career.



Russell J. DiGate, PhD

Provost

Professor of Pharmaceutical Sciences

Expertise

Molecular biology, DNA replication, topoisomerase structure and function, antibiotic design.

About Dr. DiGate

Dr. DiGate is well-known in the fields of science and academia for his intensive research. His research interests include the role of DNA helicases and topoisomerases in DNA metabolism design and the synthesis of novel antibiotics that target DNA topoisomerases.

Dr. DiGate was previously dean of the Philadelphia College of Pharmacy. He holds a PhD, MS and BA from the University of Rochester.

Pharmacology/Toxicology



Shanaz M. Tejani-Butt, PhD

*Associate Dean of the College of Graduate Studies
Professor of Pharmacology and Toxicology*

Expertise

Neuropharmacology, affective disorder, alcohol and substance abuse, animal models of psychiatric diseases.

About Dr. Tejani-Butt

Dr. Tejani-Butt's research interests include molecular mechanisms associated with the regulation of biogenic amines in an animal model of depressive behavior, implications of these biogenic amines in modulating a stress response, reward and addictive behaviors, as well as in the therapeutic action of drugs used to treat psychiatric disorders.

Her lectureship series have coincided with her research interests in central nervous system physiology and pharmacology, endocrine physiology and pharmacology and drug-receptor interactions. She received her PhD in pharmaceutical chemistry from the Medical College of Virginia, and her MS in organic chemistry and BS in chemistry and microbiology from the University of Bombay. Dr. Tejani-Butt's research is funded by the National Institute of Health.

Pharmacy Practice and Administration



Daniel Hussar, PhD

Remington Professor of Pharmacy

Expertise

New drugs, drug interactions, patient noncompliance, infectious diseases, antibiotic therapy, over-the-counter medications, contemporary issues in pharmacy practice.

About Dr. Hussar

Dr. Hussar has written and spoken extensively on the topics of drug interactions, patient compliance, and new drugs. He has been utilized as a resource for numerous print, broadcast, and web stories as an expert.

His publications include coverage of all the new therapeutic agents that have been marketed in the U.S. during the last 40 years. His papers on new drugs are published regularly in pharmacy and nursing journals and he speaks frequently on this topic to pharmacists, physicians, and nurses. He currently serves as author/editor of *The Pharmacist Activist*, a monthly newsletter, and previously served as chief pharmacy editor of *Pharmacy Today*.

Most recently, he authored *NDCR 2009*, a first-of-its-kind reference for pharmacists and healthcare practitioners that details the 158 drugs that have been marketed in the U.S. during the 2002-08 period, and features comparisons to previously marketed drugs, specific advantages and disadvantages of each, and ratings for each new drug based on comparisons with related agents.

He received his PhD in pharmacy at Philadelphia College of Pharmacy and Science.

Pharmacy Practice and Administration



Andrew Peterson, PharmD, PhD

*Interim Dean, Mayes College of Healthcare Business and Policy
Chair of Pharmacy Practice and Pharmacy Administration
Associate Professor of Clinical Pharmacy*

Expertise

Managed care pharmacy, pharmacy management, medication adherence/compliance.

About Dr. Peterson

Dr. Peterson teaches management, managed care pharmacy practice, and research design and statistics to pharmacy students. Prior to joining the University in 1996, he was an assistant director of pharmacy/clinical services at Thomas Jefferson University Hospital. He has concentrated his years of research in pharmacy management, managed care pharmacy, pharmaceutical care and medication compliance.

He received his PharmD from the Medical College of Virginia and his BS in pharmacy from Rutgers University. He also earned his PhD in health policy from University of the Sciences in Philadelphia.

Pharmacy Practice and Administration



Steven L. Sheaffer, PharmD

*Vice Chair for Experiential Learning
Associate Professor of Clinical Pharmacy*

Expertise

Medication safety, emergency preparedness including pandemic flu, hospital pharmacy practice, medication systems.

About Dr. Sheaffer

Dr. Sheaffer's practice and teaching interests include medication safety, emergency preparedness, pandemic flu challenges and treatment, hospital pharmacy practice and medication use systems including automation, information systems, and pharmacy and therapeutics committees and formulary processes. He has lectured on emergency preparedness, professionalism, and leadership and management, including the impact of professional, accrediting and credentialing organizations for individual practitioners and the profession.

Dr. Sheaffer graduated from Philadelphia College of Pharmacy and Science with his BS in 1975 and his PharmD in 1978.



**Marc Campolo, PT, PhD, SCS, ATC,
CSCS**

*Chair of the Department of Physical Therapy
Associate Professor of Physical Therapy*

Expertise

Sports injuries and rehabilitation, orthopedics.

About Dr. Campolo

Dr. Campolo is a board certified specialist as a sports physical therapist, as an athletic trainer, and as a certified strength and conditioning specialist. He is a certified clinical instructor by both the American Physical Therapy Association and the National Athletic Trainers' Association. Additionally, Dr. Campolo is a certified exercise test technologist by the American College of Sports Medicine and a certified fitness specialist by the YMCA.

Dr. Campolo's practice and research interests include the relationship between remediation and success for second time pass rate on the National Physical Therapy Examination, a comparison of quadriceps muscle activity during open kinetic chain vs. closed kinetic chain exercises, and post ACL reconstruction rehabilitation.

He received his PhD in philosophy in health science from Seton Hall University, his MA in exercise physiology from Adelphi University, and his BS in physical therapy from Hunter College.



Gregory Thielman, PT, EdD, ATC

Assistant Professor of Physical Therapy

Expertise

Physical therapy interventions and assessment, neuromuscular course sequence, advanced neurological rehabilitation procedures.

About Mr. Thielman

Thielman is a certified athletic trainer and a licensed physical therapist. His research interests include geriatric and neurological practice, kinematic analysis of trunk/upper extremity, the consequences of stroke on reaching and the rehabilitative strategies to facilitate recovery, and the movement and clinical measure analysis of therapeutic interventions to assist individuals post-stroke.

Thielman received his EdD in movement sciences from Columbia University, and his MSPT and BS from Springfield College.



Paul Halpern, PhD

Professor of Physics

Expertise

General relativity, complexity, history of physics, particle physics, the nature of time and time travel, cultural aspects of science, extraterrestrial life and new planets, scientific predictions, apocalypse, chaos theory, the Big Bang, early universe.

About Dr. Halpern

Dr. Halpern is the author of 12 widely-acclaimed books on subjects ranging from the history of particle physics to the nature of time. His recent books include *Collider: The Search for the World's Smallest Particles* and *What's Science Ever Done For Us?: What The Simpsons Can Teach Us about Physics, Robots, Life, and the Universe*. His work has received accolades and praise from numerous publications, including *USA Today*, ABCNews.com, *The Philadelphia Inquirer*, *Publishers Weekly*, *The San Francisco Chronicle*, *Nature*, *Scientific American*, *Sky & Telescope*, and *New Scientist*. Dr. Halpern has appeared on many television and radio shows, including the History Channel, the PBS series "Future Quest" and the National Public Radio show "Radio Times."

A recipient of a Guggenheim Fellowship and an Athenaeum Society Literary Award, he has published numerous research articles in the fields of general relativity, cosmology, chaos theory, complexity and the history of physics. In 1996, he was a Fulbright Scholar to Humboldt University in Berlin, Germany, where he studied evolutionary algorithms. Dr. Halpern's research interests include complex and higher-dimensional solutions in general relativity, structurally dynamic cellular automata and genetic algorithms, the history of modern physics, and the relationship between science and culture.

He received his PhD in theoretical physics and his MA in physics from the State University of New York at Stony Brook, and his BA in physics and mathematics from Temple University.

Index

Adejare, Adeboye (Pharmaceutical Sciences)	19
Ashton, William L. (Healthcare Business)	8
Beamer, Glenn (Healthy Policy and Public Health)	10
Campolo, Marc (Physical Therapy)	25
DerMarderosian, Ara (Pharmacognosy)	17
DiGate, Russell J. (Pharmaceutics)	20
Halpern, Paul (Physics)	28
Hussar, Daniel (Pharmacy Practice and Administration).....	22
Ideishi, Roger (Occupational Therapy).....	15
Kramer, Paula (Occupational Therapy)	16
Márquez, Shannon (Healthy Policy and Public Health).....	11
Métraux, Stephen (Healthy Policy and Public Health)	12
Murphy, Suzanne (Biology)	5
Parvanta, Claudia (Social Sciences).....	14
Peterson, Andrew (Pharmacy Practice and Administration)	23
Richards, Karin (Exercise Science).....	6
Robson, Roy (History)	7
Sheaffer, Steven L. (Pharmacy Practice and Administration).....	24
Stefanacci, Richard (Healthy Policy and Public Health).....	13
Tejani-Butt, Shanaz M. (Pharmacology/Toxicology)	21
Thielman, Gregory (Physical Therapy)	26
Wigent, Rodney J. (Pharmaceutics)	18
Zarus, Stephanie A. (Healthcare Business)	9
Zauhar, Randy (Biochemistry)	4