



R. Ken Coit  
College of  
Pharmacy

# DEPARTMENT OF PHARMACOLOGY & TOXICOLOGY

## Pharmacology and Toxicology Core Faculty



**Anandhan Annadurai, PhD**  
*Assistant Research Professor*

drug discovery | gene-environment interactions |  
autophagy | Nrf2 signaling



**Ju Gao, MD**  
*Assistant Research Professor*

mitochondrial dynamics | mitochondrial respiration |  
protein phase separation | neuroinflammation |  
TDP-43 proteinopathy



**Yin Chen, PhD**  
*Professor*

host immunity | inflammatory mechanisms | chronic  
respiratory diseases | fungal and viral pulmonary  
infections | high-containment (BSL-3) pathogens  
research | environmental mold exposure |  
metal(loid)-induced pulmonary toxicity



**Weiguo Han, PhD**  
*Assistant Research Professor*

cancer biomarkers | CRISPR/Cas9 | SNP | DNA/RNA |  
methylation | gene expression | lung cancer |  
molecular biology | next generation sequencing  
technology



**Nathan Cherrington, PhD**  
*Associate Dean, Professor, Musil Family  
Endowed Chair in Drug Discovery*

adverse drug reaction | drug metabolism and  
distribution | phenoconversion | heat strain |  
Metabolic dysfunction-Associated Steatohepatitis  
(MASH) | blood-testis barrier



**Bernardo Lemos, PhD**  
*Professor, R. Ken and Donna Coit Endowed  
Chair in Aging and Neurodegenerative  
Diseases*

aging | Alzheimer's | cancer | breast cancer | prostate  
cancer | health disparities | biomarkers | epigenetics |  
genomics | environmental epigenetics | ribosome |  
rDNA | toxicology | pesticide toxicology | metal  
toxicology



**Xinxin Ding, PhD**  
*Department Head, Professor*

drug metabolism/disposition | enzyme function/  
regulation | genetic/environmental risks for  
chemical toxicity | drug safety/efficacy



**Robin Polt, PhD**  
*Professor*

design synthesis of glycopeptide drugs | penetration of  
the blood-brain barrier | stroke, mTBI and Parkinson's



**Bernard Futscher, PhD**  
*Professor*

epigenetics/molecular diagnostics



**John Regan, PhD**  
*Professor Emeritus*

G-protein coupled receptors (GPCR) with an emphasis  
on the prostaglandin and adrenergic receptor sub-  
families | cell signaling involving the cAMP-PKA, inositol  
phosphate, PI3K, CREB, NF-kappaB, HIF-1alpha, ERK,  
and Tcf pathways | ocular pharmacology and drugs  
used in the treatment of neuropsychiatric disorders



**James Galligan, PhD**  
*Associate Professor*

cell metabolism | epigenetics | post-translational  
modifications | mass spectrometry | diabetes



**Kevin Rhine, PhD**  
*Assistant Professor*

neurodegeneration | microscopy | RNA biology | aging |  
phase separation | genomics | drug discovery | stress



**A. Jay Gandolfi, PhD**  
*Professor Emeritus*

disposition and toxicology of drugs and environmental  
chemicals and the development of in vivo and in vitro  
models for studying mechanisms of toxicity



**Jennifer Schnellmann, PhD**  
*Professor*

pharmacology | toxicology | pharmaceutical sciences |  
scientific writing



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### **Natalie Scholpa, PhD**

#### *Assistant Research Professor*

spinal cord injury | pharmacology | mitochondrial biogenesis



### **Lei Wang, PhD**

#### *Assistant Research Professor*

RNA binding proteins and RNA metabolism | RNA binding proteins in cancer | environmental factor related carcinogenesis



### **Catharine Smith, PhD**

#### *Associate Professor, Track Director*

mechanism of epigenetic drug action



### **George Watts, PhD**

#### *Associate Research Professor*

cancer biology | infectious disease | biomarkers



### **Ee Phie Tan, PhD**

#### *Assistant Professor*

drug discovery | lipophagy | autophagy | longevity | neurodegeneration | age-related diseases | proteomics and functional genomics



### **Qing-Yu Zhang, PhD**

#### *Professor*

drug metabolism and disposition | inflammatory bowel disease | pharmacokinetics | P450 enzymes | pharmacology and toxicology



### **Alison Veltri, PhD**

#### *Associate Professor of Practice*

pharmacology | basic and foundational sciences education



### **Haining Zhu, PhD**

#### *Professor, R. Ken and Donna Coit Endowed Chair in Aging and Neurodegenerative Diseases*

aging | neurodegenerative diseases



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# DEPARTMENT OF PHARMACOLOGY & TOXICOLOGY

## Pharmaceutics and Pharmacokinetics Core Faculty



### **Abhijit Date, PhD**

#### *Associate Professor*

drug delivery | nanomedicine | self-assembling nanocarriers | ionic liquids | drug repurposing | skin cancer | infectious diseases | hematologic cancers



### **Xinglong Wang, PhD**

#### *Professor, R. Ken and Donna Coit Endowed Chair in Aging and Neurodegenerative Diseases*

Alzheimer's | Parkinson's | frontotemporal dementia | amyotrophic lateral sclerosis | mitochondrial dysfunction | liquid-liquid phase separation | protein aggregation



### **Kenry, PhD**

#### *Assistant Professor*

nanomedicine | bioimaging | biomaterials | cancer | microfluidics | artificial intelligence | machine learning



### **Samuel Yalkowsky, PhD**

#### *Professor*

cosolvency | drug formulation | micelles | molecular symmetry | solubility | surface chemistry | melting point



### **Jianqin Lu, BPharm, PhD**

#### *John A. and Frances P. Ware Endowed Associate Professor & Track Director*

drug delivery | nanomedicine | pharmaceutics and pharmacokinetics | nano-immunoengineering | cancer immunotherapy | chemotherapy | biomaterials



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# DEPARTMENT OF PHARMACOLOGY & TOXICOLOGY

## Drug Discovery and Development Core Faculty



### Christopher Hulme, PhD

#### *Professor*

small molecule drug discovery | targeted protein degradation | medicinal chemistry | cancer | kinases | diversity and target-oriented synthesis | investigational new drugs | neurodegeneration



### Gregory Thatcher, PhD

#### *Professor, R. Ken and Donna Coit Endowed Chair in Drug Discovery*

bench to clinic small molecule drug discovery | cancer | dementia | rare diseases | enzyme mechanisms | nuclear receptor modulation | chemical toxicology



### Hongmin Li, PhD

#### *Professor, R. Ken and Donna Coit Endowed Chair in Drug Discovery*

target-based therapeutic development against viruses | fungi | multiple sclerosis | Alzheimer's | breast cancer through high throughput screening | nanobody | protein-protein interaction | structural biology | crystallography



### Wei Wang, PhD

#### *Professor*

targeted protein degradation | cellular senescence | protein modification and therapy | bioorthogonal chemistry | small molecule probes and drugs



### Rick Schnellmann, PhD

#### *Professor, Howard J. Schaeffer Endowed Chair in Pharmaceutical Sciences*

mitochondrial therapeutics | kidney diseases | drug discovery



### Georg Wondrak, PhD

#### *Professor*

redox drug discovery targeting skin cancer, sun damage, and photoaging | skin environmental exposure | cancer cell stress response pathways | proteotoxic, oxidative, and chlorination stress



### Daekyu Sun, PhD

#### *Associate Professor*

targeting angiogenesis in cancer | transcriptional regulation of oncogenes



### Rui Xiong, PhD

#### *Assistant Professor*

medicinal chemistry | covalent DNA-encoded libraries (DEL) | DEL screening | covalent drug warhead development | AI in drug design | chemoinformatics



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# DEPARTMENT OF PHARMACY PRACTICE & SCIENCE



**Ivo Abraham, PhD**  
*Professor of Practice*

clinical outcomes and effectiveness research |  
economics and value of human therapeutics



**Lisa Davis, PharmD**  
*Clinical Professor*

cancer prevention and treatment | precision oncology  
| pharmacokinetics | supportive care and integrative  
oncology | cancer drug development



**Nancy A. Alvarez, PharmD**  
*Associate Dean, Professor of Practice*

pain management | end-of-life care | pharmaceutical  
industry – medical affairs and medical communications |  
community-based pharmacy practice | leader  
development



**Hongxu Ding, PhD**  
*Assistant Professor*

single cell sequencing | nanopore sequencing | deep  
learning



**Caitlin Cameron, PharmD**  
*Associate Professor of Practice*

assessment | distance learning | inter-professional  
collaboration | medication programs | pharmacist  
workforce | student mentorship



**Christopher Edwards, PharmD**  
*John A. and Frances P. Ware Endowed  
Associate Clinical Professor*

emergency medicine pharmacotherapy | AI in  
pharmacy practice and education | sustainability in  
pharmacy practice



**Ashley Campbell, PharmD**  
*Associate Clinical Professor*

delirium | geriatric pharmacy education | health span |  
anticoagulation | active learning strategies |  
medication safety in older adults



**Brian Erstad, PharmD**  
*Interim Dean, Professor*

patient safety and health outcomes | critical care  
medicine | pharmacoeconomics



**Qin Chen, PhD**  
*Professor, Director and Holsclaw Endowed  
Professorship of Pharmacogenomics*

cell biology | molecular biology | animal models of  
oxidative stress



**Elizabeth Hall-Lipsy, JD**  
*Assistant Dean, Associate Professor of  
Practice*

health disparities/rural health | health law/pharmacy  
law and policy | health professions education and  
assessment



**Janet Cooley, PharmD**  
*Associate Clinical Professor*

scholarship of teaching and learning | preceptor  
assessment | quality improvement in education |  
pharmacy education curriculum | interprofessional  
education and collaboration



**Nicole Henry, PharmD**  
*Assistant Professor of Practice*

business management | leadership | geriatrics |  
pharmacoeconomics | increasing access to care |  
vaccine hesitancy



**Bernadette Cornelison, PharmD**  
*Associate Clinical Professor*

drug expenditures | self-care therapeutics | medication  
management | transitions of care services



**Phillip Ieng, PharmD**  
*Assistant Professor of Practice*

psychiatry | community-based pharmacy practice |  
inter-professional collaboration | leader development |  
student mentorship





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**Jason Karnes, PhD, PharmD**  
*John A. and Frances P. Ware Endowed  
Department Head, Professor, Track Director*

clinical and translational research | genotype-guided prescribing | adverse drug reactions | cardiovascular pharmacogenomics | immunopharmacogenomics | personalized medicine



**Jingjing Liang, PhD**  
*Assistant Research Professor*

genetic and multi-omics approach to identify mechanisms in complex disease | role of sleep-related disorder in dementia | precision medicine in neurodegenerative disease



**Michael Katz, PharmD**  
*Clinical Professor Emeritus*

international pharmacy practice | pharmacy education



**Kiana Martinez, PhD**  
*Assistant Research Professor*

leveraging bioinformatic approaches and “big data” to perform clinical and translational research including pharmacogenomics and investigating complex phenotypes



**Amy Kennedy, PharmD**  
*Associate Clinical Professor*

pharmacists impact on underserved populations | pharmacists impact on pain outcomes | innovative teaching methods | professional development | advocacy



**Kathryn Matthias, PharmD**  
*Associate Clinical Professor*

infectious diseases | antimicrobial stewardship | pharmacokinetics



**Kelli Kronsberg, PharmD**  
*Instructor*

antimicrobial pharmacokinetics, stewardship, resistance, and treatment | infectious diseases | molecular diagnostics



**Aaron Middleton, PharmD**  
*Lecturer*

quality improvement | medication safety | pharmaceutical compounding



**Erwin Lam, PharmD**  
*Instructor*

pharmacotherapy | internal medicine | pharmacoeconomics | biostatistics | evidence-based medicine | medication safety



**David Nix, PharmD**  
*Professor*

clinical pharmacology of antibacterial and antifungal drugs



**Bonnie LaFleur, PhD**  
*Research Professor, Health Outcomes & Pharmacoeconomic Research Center Director*

biostatistics | precision medicine | aging | oncology | immunobiology



**Tho Pham, PharmD**  
*Assistant Professor of Practice*

antimicrobial pharmacokinetic/pharmacodynamic | resistance | stewardship | public health | community outreach



**Jeannie Lee, PharmD**  
*Associate Dean, Associate Professor*

medication adherence | aging | health disparities | health literacy | chronic disease | hypertension | interprofessional practice and education | pharmacist impact | technology in aging | integrative health



**Jenene Spencer, PharmD**  
*Instructor*

student and preceptor mentorship | experiential education | geriatrics/aging | community-based pharmacy practice



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**Theodore Tong, PharmD**  
*Professor Emeritus*

interprofessional engagement | health outcomes | pharmacy readiness, response and contingencies during mass emergencies, hazards and threats to public | history of pharmacy and medicine | present and future health education



**Sandi Thoi, PharmD**  
*Instructor*

experiential education | student and preceptor mentorship | geriatrics/aging | ambulatory care



**Alejandro Vazquez, PharmD**  
*Assistant Clinical Professor*

pediatric ambulatory care | diabetes | allergy | asthma | patient advocacy | chronic disease management



**Carolanne Wartman, PharmD**  
*Assistant Clinical Professor*

mental health | substance use disorders | harm reduction | care for underserved populations | transitions of care



**Travis Wheeler, PhD**  
*Associate Professor*

genomic and proteomic data | computational drug discovery | mass spectrometry data analysis | automated animal tracking and behavior classification



**Beth Zerr, PharmD**  
*Associate Clinical Professor*

women's health | self-care therapeutics | asthma | COPD | ambulatory care | disease state management