



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



**Yin Chen, PhD**  
*Professor*

innate immunity | inflammation | lung disease | pathophysiology of lung diseases such as infection, asthma and COPD



**Nathan Cherrington, PhD**  
*Associate Dean, Professor*

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



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

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



**Bernard Futscher, PhD**  
*Professor*

functional genomics | molecular biology of cancer | cancer pharmacology



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

cellular metabolism | epigenetics | enzymatic regulation | liver disease | metabolites | histones | post-translational modifications | mass spectrometry | proteomics | hyperglycemia



**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



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

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



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

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



**Kenry, PhD**  
*Assistant Professor*

immunotherapy | bioimaging | microfluidics | artificial intelligence | machine learning



**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



**Aikseng Ooi, PhD**  
*Associate Professor*

molecular carcinogenesis | mutation-driven transcriptional and metabolic reprogramming | carcinogen-driven transcriptional and metabolic reprogramming | computational biology



**John Regan, PhD**  
*Professor*

G-protein coupled receptors (GPCR) with an emphasis on the prostaglandin and adrenergic receptor subfamilies. 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.



**Natalie Scholpa, PhD**  
*Assistant Research Professor*

spinal cord injury | pharmacology | mitochondrial biogenesis



**Catharine Smith, PhD**  
*Associate Professor, Track Director*

epigenetic mechanisms of gene regulation | steroid receptor action | signal transduction and cell cycle control | mechanism of anticancer | epigenetic drug action



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## Pharmacology and Toxicology Core Faculty



**Alison Veltri, PhD**

*Associate Professor of Practice*

drug discovery



**Qing-Yu Zhang, PhD**

*Professor*

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



**Lei Wang, PhD**

*Assistant Research Professor*

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



**Haining Zhu, PhD**

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

aging | neurodegenerative diseases



**George Watts, PhD**

*Associate Research Professor*

cancer biology | infectious disease | biomarkers



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# DEPARTMENT OF PHARMACOLOGY & TOXICOLOGY

## Pharmaceutics and Pharmacokinetics Core Faculty



### **Abhijit Date, PhD**

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



### **Jianqin Lu, PhD**

*Associate Professor, Track Director*

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



### **Samuel Yalkowsky, PhD**

*Professor*

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



### **Bo Sun, PhD**

*Assistant Research Professor*

pharmaceutics | drug delivery | biomaterials | cancer immunotherapy | chemotherapy



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# DEPARTMENT OF PHARMACOLOGY & TOXICOLOGY

## Drug Discovery and Development Core Faculty



### Christopher Hulme, PhD

*Professor, Arizona Center for Drug Discovery Co-Director*

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*

chemical genomics | Alzheimer's | diseases of aging



### 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 disease | breast cancer through high throughput screening | nanobody | protein-protein interaction | structural biology | crystallography



### Wei Wang, PhD

*Professor, Arizona Center for Drug Discovery Co-Director*

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



### Rick Schnellmann, PhD

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

identifying and developing drugs to treat acute kidney injury | diabetic kidney disease | stroke | spinal cord injury | Parkinson's disease through mitochondrial biology



### Georg Wondrak, PhD

*Professor*

skin environmental exposure | sunlight | cancer | drug discovery



### Daekyu Sun, PhD

*Associate Professor*

targeting angiogenesis in cancer | transcriptional regulation of oncogenes



### Rui Xiong, PhD

*Assistant Professor*

medical chemistry | bioassays | drug discovery and development | gene regulation



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# DEPARTMENT OF PHARMACY PRACTICE & SCIENCE



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

clinical outcomes and effectiveness research | variability in drug-centric treatment regimens in patient outcomes



**Nancy Alvarez, PharmD**  
*Associate Dean, Associate Professor*

pain medicine | end-of-life care | leader development | diversity, equity, and inclusion | pharmaceutical industry – medical affairs & medical communications | community-based pharmacy practice



**David Rhys Axon, PhD**  
*Associate Research Professor*

social and administrative pharmacy | health outcomes



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

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



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

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



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

cell biology | molecular biology | animal models of oxidative stress



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

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



**Bernadette Cornelison, PharmD**  
*Assistant Clinical Professor*

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



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

oncology | breast cancer | colon cancer | multiple myeloma | pharmacokinetics | pharmacotherapeutics | chemoembolization



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

single cell sequencing | nanopore sequencing | deep learning



**Christopher Edwards, PharmD**  
*Associate Clinical Professor*

emergency medicine pharmacotherapy | artificial intelligence in pharmacy practice and education | sustainability in pharmacy practice



**Brian Erstad, PharmD**  
*Professor*

patient safety and health outcomes | critical care medicine | pharmacoeconomics



**Tyler Gallo, PharmD**  
*Assistant Professor*

medication safety | clinical decision support | pharmacogenomics



**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



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

geriatrics | pharmacoeconomics | increasing access to care | vaccine hesitancy



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# DEPARTMENT OF PHARMACY PRACTICE & SCIENCE



**Philip Ieng, PharmD**  
*Assistant Professor of Practice*  
preceptor



**Jason Karnes, PhD, PharmD**  
*Department Head, Associate Professor, Track Director*  
clinical and translational research | genotype-guided prescribing | adverse drug reactions | cardiovascular pharmacogenomics | immunopharmacogenomics | personalized medicine



**Michael Katz, PharmD**  
*Clinical Professor*  
international pharmacy practice | pharmacy education



**Amy Kennedy, PharmD**  
*Associate Clinical Professor*  
pharmacists impact on underserved populations | pharmacists impact on pain outcomes | innovative teaching methods | advocacy



**Bonnie LaFleur, PhD**  
*Research Professor, Health Outcomes & Pharmacoeconomic Research Center Director*  
biostatistics | precision medicine | aging | oncology | immunobiology



**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



**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



**Kiana Martinez, PhD**  
*Assistant Research Professor*  
leveraging bioinformatic approaches and “big data” to perform clinical and translational research including pharmacogenomics and investigating complex phenotypes



**Kathryn Matthias, PharmD**  
*Associate Clinical Professor*  
infectious diseases | antimicrobial stewardship | pharmacokinetics



**Aaron Middleton, PharmD**  
*Lecturer*  
healthcare systems improvement



**David Nix, PharmD**  
*Professor*  
clinical pharmacology of antibacterial and antifungal drugs



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



**Jenene Spencer, PharmD**  
*Instructor*  
clinical services | community outreach



**Sandi Thoi, PharmD**  
*Instructor*  
psychiatric pharmacotherapy | geriatric psychiatry | psychotropic use patterns | deprescribing | medication safety | interprofessional education



**Alejandro Vazquez, PharmD**  
*Assistant Clinical Professor*  
ambulatory care | indigent patient populations | patient self-efficacy | pharmacy interventions in chronic disease management



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**Carolanne Wartman, PharmD**

*Assistant Clinical Professor*

substance use disorders | harm reduction | care for underserved populations | sexual and gender minorities | adverse drug reactions



**Beth Zerr, PharmD**

*Assistant Clinical Professor*

asthma | birth control | COPD | disease management | NSAIDs | Parkinson's disease | transitional care



**Travis Wheeler, PhD**

*Associate Professor*

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