



THE UNIVERSITY OF ARIZONA

R. Ken Coit
College of Pharmacy

Department of Pharmacology & Toxicology – Drug Discovery and Development Core Faculty



Eli Chapman, PhD

Professor

Research Area: Design and development of compounds targeting cellular quality control pathways



Chris Hulme, PhD

Professor and Co-Director, Arizona Center for Drug Discovery

Research Area: Discovery and development of novel neurodegenerative therapeutics



Laurence Hurley, PhD

Professor Emeritus

Research Area: Design and development of anti-tumor agents



Hongmin Li, PhD

Professor, Endowed Chair, R Ken and Donna Coit - Drug Discovery

Research Area: Target-based therapeutic development against viruses, fungi, multiple sclerosis, Alzheimer's disease, and breast cancer through high throughput screening, nanobody, protein-protein interaction, structural biology, and crystallography



Rick Schnellmann, PhD

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

Research Area: Identifying and developing drugs to treat acute kidney injury, diabetic kidney disease, stroke, spinal cord injury and Parkinson's disease through mitochondrial biology



Daekyu Sun, PhD

Associate Professor

Research Area: Repression of the transcriptional activation of the human VEGF, HIF-1a gene, RET and other oncogenes



Georg T Wondrak, PhD

Professor and Director, Graduate Studies

Research Area: Redox drug discovery targeting oxidative and proteotoxic stress in solar photodamage and skin cancer



Gregory Thatcher, PhD

Professor, Endowed Chair, R Ken and Donna Coit - Drug Discovery

Research Area: Chemical biology, medicinal chemistry, and chemical genomics in drug discovery and interventions in cancer and aging



Rui Xiong, PhD

Assistant Professor

Research Area: Medical chemistry, bioassays, drug discovery and development, gene regulation



Wei Wang, PhD

Co-Director, Arizona Center for Drug Discovery Professor

Research Area: Exploring innovative and useful chemical tools including chem- and bio-orthogonal reactions and chemical probes including imaging and proximity-augmented functional small molecules to explore biology and medicine



Donna Zhang, PhD

Professor, Musil Endowed Chair in Drug Discovery

Research Area: Molecular regulation of the Nrf2/keap1 signaling pathway, the role of NRF2 and Arsenic in Cancer and Diabetes, and NRF2-based drug development



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Yin Chen, PhD
Professor

Research Area: Innate immunity, inflammation, and pathophysiology of lung diseases such as infection, asthma and COPD



Xinxin Ding, PhD
Professor and Department Head

Research Area: Mechanisms and biomarkers of toxicity of drugs and environmental pollutants; etiology and prevention of lung cancer and non-cancer lung diseases; drug/xenobiotic metabolism and disposition; preclinical drug development



James Galligan, PhD
Associate Professor

Research Area: Understanding the link between cellular metabolism, epigenetics, and disease etiology



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

Research Area: rDNA and the impact of dietary interventions and exposure to environmental toxicants on the genome and epigenome



John Regan, PhD (*honoris causa*)
Professor

Research Area: 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



Haining Zhu, PhD
Professor, R. Ken and Donna Coit Endowed Chair in Aging and Neurodegenerative Diseases

Research Area: Mechanistic and translational studies of RNA binding proteins and RNA metabolism in neurodegenerative disorders and other human diseases



Kenry, PhD
Assistant Professor

Research Areas: Nanomedicine, Immunotherapy, Bioimaging, Microfluidics, Artificial Intelligence and Machine Learning



Nathan Cherrington, PhD
Professor and Associate Dean for Research

Research Area: Studying what factors alter the expression and function of the drug metabolizing enzymes and transporters that determine the fate of drugs



Matthew Dodson, PhD
Assistant Research Professor

Research Area: Cellular and molecular mechanisms that regulate the interplay between metabolism, oxidative stress, mitochondrial function, and autophagy during disease pathogenesis



Bernard Futscher, PhD
Professor

Research Area: Functional genomics; molecular biology of cancer; cancer pharmacology



A. Jay Gandolfi, PhD
Professor Emeritus

Research Area: Disposition and toxicology of drugs (e.g., anesthetics) and environmental chemicals (e.g., arsenicals) and the development of in vivo and in vitro models for studying mechanisms of toxicity



Aikseng Ooi, PhD
Associate Professor

Research Area: Molecular carcinogenesis; Mutation-driven transcriptional and metabolic reprogramming; Carcinogen-driven transcriptional and metabolic reprogramming; Computational biology



Catharine Smith, PhD
Associate Professor and Track Director

Research Area: Epigenetic mechanisms of gene regulation, steroid receptor action, signal transduction and cell cycle control, mechanism of anticancer, epigenetic drug action



Alison Veltri, PhD
Associate Professor

Research Area: Drug discovery



Qing-Yu Zhang, PhD
Professor

Research Area: Regulation of P450 expression in intestine, drug metabolism and xenobiotic toxicity, preclinical drug development and inflammatory bowel disease



THE UNIVERSITY OF ARIZONA

R. Ken Coit
College of Pharmacy

Department of Pharmacology and Toxicology -
Pharmaceutics and Pharmacokinetics Core Faculty



Abhijit Date, PhD
Assistant Professor

Research Area: Drug Delivery, Nanomedicine, Self-assembling Nanocarriers, Ionic Liquids, Drug Repurposing, Infectious Diseases, Skin Cancer, Hematologic Cancers



Michael Mayersohn, PhD
Professor Emeritus

Research Area: Pharmacokinetics and pharmacodynamics, absorption, geriatrics and drugs of abuse



Jianqin Lu, BPharm, PhD
Assistant Professor

Research Area: Drug Delivery, Nanomedicine, Pharmaceutics and Pharmacokinetics, Nano-ImmunoEngineering, Cancer Immunotherapy, Chemotherapy, Biomaterials



Samuel Yalkowsky, PhD
Professor

Research Area: Relationships between chemical structure and physical phenomena such as solubility, partitioning, and melting



Bo Sun, PhD
Research Assistant Professor

Research Area: Pharmaceutics, Drug Delivery, Biomaterials, Cancer Immunotherapy and Chemotherapy



Xinglong Wang
Professor, Endowed Chair, R Ken and Donna Coit - Aging and Neurodegenerative Diseases

Research Area: Understanding the mechanism(s) underlying neuronal death in various major neurodegenerative diseases with a focus on Alzheimer's disease, Parkinson's disease, Frontotemporal dementia, and Amyotrophic lateral sclerosis



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Department of Pharmacy Practice and Science



Ivo Abraham, PhD, RN
Professor

Research Area: Clinical outcomes and effectiveness research, variability in (drug-centric) treatment regimens in patient outcomes



David Rhys Axon, PhD, MPharm, MS
Associate Research Professor

Research Area: Improving the economic, clinical, and humanistic outcomes associated with managing chronic conditions, particularly pain and the opioid crisis, pharmacy education, research design, and social & administrative pharmacy



Jenny Bingham, PharmD
Assistant Professor

Research Area: Digital health, value-based programs, and comprehensive medication management



Ashley Campbell, PharmD, BCPS
Associate Clinical Professor

Research Area: Delirium, geriatrics, osteoporosis, geriatrics/orthopaedic surgery co-management, anticoagulation and active learning strategies, tapering/deprescribing



Janet Cooley, PharmD BCACP
Associate Professor

Research Area: Scholarship of Teaching and Learning, Preceptor assessment, Quality improvement in education, Pharmacy education curriculum, Interprofessional Education and Collaboration



Lisa Davis, PharmD, FCCP, BCPS, BCOP
Clinical Professor

Research Area: Oncology, breast cancer, colon cancer, pharmacokinetics, pharmacotherapeutics, chemoembolization, multiple myeloma



Maryam Fazel, PharmD, BCPS, BCACP, CDE
Assistant Professor

Research Area: Diabetes education, insulin pumps, interprofessional education, health outcomes, interprofessional practice, pharmacotherapy



Nancy Alvarez, PharmD, BCPS
Associate Dean

Research Area: Pain medicine and advocacy for appropriate use of opioids, medical communications in the pharmaceutical industry and appropriate dissemination of off-label information and risk information, leader development



Caitlin Cameron, PharmD
Assistant Professor

Research Area: Distance learning, infusion safety, inter-professional collaboration, medication programs, prescription writing



Connie Chan, PharmD, BCPS
Clinical Instructor and Clinical Pharmacist

Research Area: Infectious diseases, HIV/AIDS, ambulatory care, internal medicine, vaccine and immunization



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

Research Area: Cell biology, molecular biology and animal models of oxidative stress



Bernadette Corenelison, PharmD
Assistant Professor

Research Area: Drug expenditures, self-care therapeutics, medication management, transitions of care services



Hongxu Ding, PhD
Assistant Professor

Research Area: Pharmacogenetics, singlecell analysis, nanopore sequencing



Christopher Edwards, PharmD, BCPS
Assistant Professor

Research Area: Emergency medicine pharmacotherapy, pain relief and sedation, rapid sequence intubation, toxicology



Brian Erstad, PharmD, MCCM, FCCP, FASHP
Professor and Department Head

Research Area: Patient safety and health outcomes, critical care medicine, pharmacoeconomics



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Department of Pharmacy Practice and Science



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

Research Area: Public/population health, professional liability, racial and ethnic disparities in mental health, social justice and empathy, underserved, rural communities, workforce recruitment, academic-community partnership, rural health, health disparities



Jason H. Karnes, PharmD, PhD, BCPS, FAHA
Assistant Professor

Research Area: Clinical and translational research, genotype-guided prescribing, adverse drug reactions, cardiovascular pharmacogenomics, immunopharmacogenomics, personalized medicine



Amy Kennedy, PharmD, BCACP
Assistant Professor and Residency Program Director

Research Area: Pharmacists impact on underserved populations, pharmacists impact on pain outcomes, innovative teaching methods, advocacy



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

Research Area: Immunobiology, oncology, aging



Erwin Lam, PhD
Clinical Instructor

Research Area: Internal medicine, continuity of care, safe medical practices, interprofessional collaboration in healthcare, pharmacoeconomics



Mandana Naderi, PharmD, BCIDP
Instructor

Research Area: Infectious Diseases, Public Health, Antibiotic Prescribing, Antimicrobial Stewardship, Rural/Population Health



Theodore Tong, PharmD
Professor

Research Area: Basic disaster life support, chemical terrorism and warfare agents, emergency response to terrorism, hazardous/toxic waste management, infectious disease pharmacotherapy, naloxone, patient centered disease management, poison control, trichloroethylene



Nicole Henry, Pharm D
Assistant Professor of Practice

Research Area: Geriatrics, health outcomes, and medication adherence



Philip Ieng, PharmD, MBA
Assistant Professor

Research Area: Preceptor



Michael Katz, PharmD
Professor and Director

Research Area: international pharmacy practice and pharmacy education



Jeannie Lee, PharmD, BCPS, CGP, FASHP
Assistant Dean and Associate Professor

Research Area: Medication adherence, aging, health disparities, health literacy, chronic disease, hypertension, interprofessional practice and education, pharmacist impact, technology in aging, integrative health



Jingjing Liang
Assistant Research Professor

Research Area: Genetic risk factors associated with intermediate phenotypes among various neurodegenerative diseases.



Kathryn Matthias, PharmD, BCIDP
Assistant Professor

Research Area: Infectious diseases, antimicrobial stewardship, pharmacokinetics



David Nix, PharmD, BCPS (AQ-ID)
Professor and Residency Program Director

Research Area: Antibacterial pharmacokinetics, toxicokinetics and applications to treating infectious diseases and drug development



Jenene Spencer, PharmD
Instructor and IPPE Coordinator

Research Area: Clinical services, community outreach



Travis Wheeler, PhD
Associate Professor

Research Area: Genomic and proteomic data, computational drug discovery, mass spectrometry data analysis, automated animal tracking and behavior classification



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Department of Pharmacy Practice and Science



Aaron Middleton, PharmD

Lecturer

Research Area: Healthcare systems improvement



Tyler Gallo, PharmD

Assistant Professor

Research Area: Clinical decision support, medication safety, pharmacogenetics implementation



Alejandro Vasquez, Pharm D

Assistant Professor

Research Area: Ambulatory Care, Indigent Patient Populations, Patient Self-Efficacy, Pharmacy Interventions in Chronic Disease Management



Sandi Thoi, PharmD, BCACP

Instructor

Research Area: Psychiatric pharmacotherapy, geriatric psychiatry, psychotropic use patterns, deprescribing, medication safety, and interprofessional education



Beth Zerr, PharmD, BCACP

Assistant Professor

Research Area: Asthma, birth control, COPD, disease management, NSAIDs, Parkinson's disease, transitional care



Nina Vadieli, PharmD, BCPP

Assistant Professor

Research Area: Psychiatric pharmacotherapy, geriatric psychiatry, psychotropic use patterns, deprescribing, medication safety, and interprofessional education