

Duxin Sun, Ph.D.

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Education

1998-2002 Ph.D. in Pharmaceutical Sciences
Department of Pharmaceutical Sciences, College of Pharmacy, University of
Michigan, Ann Arbor, Michigan

1994-1998 Visiting Scholar in Molecular Pharmacology
Department of Pharmacology, University of Pennsylvania (Philadelphia, PA) and
Vanderbilt University (Nashville, TN)

1989-1992 Master of Pharmacology School of Pharmacy, Second Military Medical University, Shanghai, China

1982-1986 Bachelor of Pharmacy School of Pharmacy, Second Military Medical University, Shanghai, China

Appointments

2022- Associate Dean for Research, College of Pharmacy 2021- Charles R. Walgreen, Jr. Professor of Pharmacy

Department of Pharmaceutical Sciences, College of Pharmacy, The University of Michigan, Ann Arbor, MI 48109

2017-2021 J.G. Searle Endowed Professor

Department of Pharmaceutical Sciences, College of Pharmacy, The University of Michigan, Ann Arbor, MI 48109

2014-2017 William I. Higuchi Collegiate Professor

Department of Pharmaceutical Sciences, College of Pharmacy, The University of Michigan, Ann Arbor, MI 48109

2013- Professor

Department of Pharmaceutical Sciences, College of Pharmacy, The University of Michigan, Ann Arbor, MI 48109

Director of Pharmacokinetics Core, College of Pharmacy and Comprehensive Cancer Center, University of Michigan

Member, Interdepartmental Program in Medicinal Chemistry, College of Pharmacy, University of Michigan

Member, Comprehensive Cancer Center, University of Michigan Medical School Member, Chemical Biology Program, University of Michigan

2008-2013 Associate Professor

Department of Pharmaceutical Sciences, College of Pharmacy, The University of Michigan, Ann Arbor, MI 48109

Member, Interdepartmental Program in Medicinal Chemistry, College of Pharmacy Member, Comprehensive Cancer Center, University of Michigan Medical School Member, Chemical Biology Program, University of Michigan 2003-2008 Assistant Professor
Div of Pharmaceutics, College of Pharmacy, Ohio State Univ. Columbus, OH 43210
Member, Comprehensive Cancer Center of The Ohio State University
Member, The Ohio State Biochemistry Program (OSBP), Ohio State University
Member, Molecular, Cellular, and Development Biology Program, Ohio State
University

2002-2003 Research Investigator II
Bristol-Myers Squibb Company, One Squibb Drive, New Brunswick, NJ 08903

1994-1998 Senior Research Specialist and Visiting Scholar
Department of Pharmacology, University of Pennsylvania, Philadelphia, PA 19104;
and Vanderbilt University, Nashville, TN 37232 (Same lab in two different
universities due to PI's lab move)

1990-1994 Lecturer of Pharmacology School of Pharmacy, Second Military Medical University, 101 Guo He Road, Shanghai 200433, China

1986-1990 Teaching Assistant of Pharmacology School of Pharmacy, Second Military Medical University, 101 Guo He Road, Shanghai 200433, China

Current Research Programs - Drug Discovery, NanoMedicine, and Pharmacokinetics

1. Why Most Anticancer Nanomedicines Do Not Enhance Clinical Efficacy and How to Improve It?

This project develops a drug/nanocarrier-specific anticancer nanomedicine design strategy to enhance their clinical efficacy and improve clinical success rates.

Anticancer nanomedicines hope to act like biological missiles targeting tumors by (1) utilizing the enhanced permeability and retention (EPR) effect for increasing accumulation in tumors to improve efficacy, and (2) maintaining long bloodstream circulation for reducing accumulation in healthy organs to minimize toxicity. However, despite their outstanding efficacy in preclinical animal cancer models, most anticancer nanomedicines have not demonstrated superior clinical efficacy, sparking a decade long debate on current design strategies.

We found three key issues affecting their clinical efficacy: (1) EPR, while present in all animal and human tumors, may not always lead to the increased nanomedicine accumulation compared to free drugs depending on cancer models; (2) long circulation may reduce nanomedicine clearance by the mononuclear phagocyte system (MPS), but could negatively affect efficacy and alter, rather than reduce, toxicity; (3) the percentage of dose delivered to tumors and healthy organs may not be a reliable indicator for efficacy/toxicity.

We propose a drug/nanocarrier-specific nanomedicine design strategy to improve their clinical success: (1) Cancer-specific, identifying features of cancer types that can be used for targeted drug delivery; (2) Cell-specific, understanding the cell types to which drugs need to be delivered; (3) Drug-specific, identifying the intrinsic shortcomings of the delivered drugs that need to be overcome; and (4) Nanocarrier-specific, evaluating specific nanocarriers to overcome the specific limitations of the delivered drugs.

Currently, we are employing these new strategies to design anticancer nanomedicines that remodel the immune microenvironment in both tumors and lymph nodes for the immunotherapy of various type of cancers.

2. Why 90% Drug Development Fails and How to Improve It?

This project aims to improve drug development success through the integrated STAR system (structure-tissue/cell selectivity-activity-relationship) by addressing the 90% failure rate.

Drug development typically takes 10-15 years and \$1-2 billion, with a 90% failure rate from Phase I to Phase III trials, often due to insufficient efficacy or high toxicity. Despite significant improvement in each stage of drug development using hundreds successful strategies/criteria, the overall success rate remains at 10%. It is crucial to reevaluate current strategies and eliminate non-essential criteria instead of continuously adding more. But which ones are essential or non-essential?

We found three critical deficiencies contributing to drug development failures: (1) insufficient disease target validation and on-/off-target effect assessment during structure-activity-relationship (SAR) optimization; (2) neglected structure-tissue/cell selectivity-relationship (STR) resulting in/from on/off-target engagement in disease vs. normal organs in drug-like property optimization; and (3) suboptimal dosing impacting clinical efficacy-toxicity balance, influenced by SAR and STR.

We introduce the STAR system to address drug development deficiencies by integrating three key aspects: (1) balancing potency/specificity/safety during SAR optimization; (2) optimizing tissue/cell selectivity in disease vs. normal organs for on-/off-target engagement in STR optimization; and (3) determining effective/safe doses as determined by SAR and STR. The STAR system categorizes candidates into four classes, prioritizing Class I candidates to enhance success rates, contrasting with the current focus on Class II candidates with high failure rate.

We are currently using STAR system to optimize PI3K inhibitors and other immune modulators for cancer immunotherapy, JAK inhibitors for treating inflammatory bowel disease, anti-viral drugs to treat COVID19 severe disease.

3. Why Most Anticancer Vaccines only Achieved Short-Term Effect and How to Improve It?

This project is focused on developing a cancer vaccine to achieve long-term tumor remission.

While current cancer vaccines, activating T cell immunity, have shown promising anticancer effects in melanoma, their efficacy in treating other types of cancer remains limited. In contrast, the role of B cell immunity in cancer vaccine design has been a topic of debate. Recent clinical studies, however, suggest that activating B cell immunity, particularly the interaction between B cells and CD4 T cells, is crucial for the long-lasting anticancer efficacy of immunotherapy. To address this, we have developed a virus antigen cluster mimicry nanovaccine (VAMVax), which enhances B cell and CD4 T cell cross-talk, to achieve long-term tumor remission in HER2-positive breast cancer.

4. What Are the Differences in Microbiome, Bile Salts, and Drug Release Between Human Small Intestine and Colon?

This project investigates the variations in the microbiome, bile salts, and drug release within the human stomach, small intestine, and colon, and studies how these differences influence drug product development and disease states.

During oral drug product development, optimizing in vitro and in vivo drug release in the human gastrointestinal (GI) tract is crucial. Bile salts in the GI tract, which change under fasting and fed conditions, influence drug release, disease states, and the microbiome. Additionally, the human GI tract's microbiome plays a role in regulating disease conditions and drug treatments.

We have directly measured drug release in various regions of the human GI tract (stomach, duodenum, jejunum, and ileum) for immediate-release, modified-release, and locally-acting drug products. We also compared the profiles of 15 bile salts in different regions of the human small intestine under fasting and fed conditions. Lastly, we examined the distinct microbiome profiles in different regions of the human small intestine and colon.

5. Pharmacokinetics Core

The pharmacokinetics and mass spectrometry (PKMS) core plays a pivotal role in advancing the drug discovery, clinical translation, and optimization of novel and existing therapeutics. The PKMS core supports: (1) quantitative LC-MS analysis of molecules and mass spectrometry imaging of spatial localization biomarkers in tissue section; (2) preclinical ADME and pharmacokinetics for lead compound optimization in drug discovery and development; (3) clinical pharmacokinetics and dosage regimen design for clinical trials. PKMS core has supported LC-MS analysis, pre-clinical ADME and PK of more than 7500 compounds; supported clinical pharmacokinetics of more than 55 compounds in clinical trials.

Current Grants		
2022-2024	PARTNERSHIP: Developing a Dietary Approach in the Management of Inflammatory Bowel Disease	
	USDA 2022-67017-36303, PI: Grace Chen, Co-I: Duxin Sun	
2022-2026	The Microbiome and Aging in Clostridioides Difficile NIH R01 Al162787-01-A1, PI: Vincent Young, Raymond Yung, Co-I: Duxin Sun	
2022-2027	Preclinical Development of First-in-Class GSTO1 Degraders for Colorectal Cancer NIH R01 CA266513, PI: Nouri Neamati, Co-I: Duxin Sun	
2022-2027	Preclinical Development of First-in-Class NDUFS7 Antagonists for the Treatment of Pancreatic Cancer NIH R01 CA272641-01, PI: Nouri Neamati, Co-I: Duxin Sun	
2021-2023	Development of Protein Degraders Oncopia Therapeutics, Inc, co-I: Duxin Sun	
2020-2023	Tissue localization of Cyclosporine and related metabolite in CD-1 mouse models Aurinia Pharmaceuticals Inc., PI: Duxin Sun	
2020-2023	Setting Patient-Centric Quality Standards (PCQS) for Modified Release (MR) Oral Drug Products with Biopredictive <i>In Vitro</i> Dissolution Models FDA BAA-20-00123-A2, Co-Pls: Duxin Sun, Amit Pai	

2020-2025 Virus-Like Nanoparticles for Non-Capsid Antigen Delivery with Virus Structure/Functional

	Mimicry to Activate B Cell Immunity NIH R01 Al154072. PI: Duxin Sun
2019-2024	Development of ASH1L inhibitors for acute leukemia NIH R01 CA244254, PI: Jolanta Grembecka, Co-I: Duxin Sun
2019-2024	Small-molecule STAT3 degraders NIH R01 CA244509, PI: Shaomeng Wang, Co-I: Duxin Sun
2019-2023	Hit-to-lead optimization for heart failure drug discovery NIH R01 HL-148068-01, PI: Lennane Michel Espinoza-Fonseca, Co-I: Duxin Sun
2018-2023	Inhibiting Bcl-2 intestinal regulated intestinal fibrosis NIH R01 DK-118154-01, PI: Peter Higgins, Co-I: Duxin Sun
2018-2023	Targeting NSD1 in leukemia NIH R01 CA-226759-01-A1, PI: Thomasz Cierpicki, Co-I: Duxin Sun
Finished Cr	
Finished Gr 2018-2023	University of Michigan Comprehensive Cancer Center support grant NIH P30 CA-046592-29 PI: Eric Feiron, Co-I: Duxin Sun (PK SR Director)
2019-2023	New Strategy to Identify, Validate, and Eliminate Heterogeneity for Personalized Cancer Therapy Joint Institute UM/Peking Initiative J1 (UM-PKUHSC), Co-PI: Duxin Sun, Ning Zhang, Joseph Burnett
2018-2023	Development of a dual and selective small molecule inhibitor of EGFR and PI3 Kinase to treat BRAF mutant colorectal cancer NIH R01 CA-220199-01-A1, PI: Judith Leopold, Co-I: Duxin Sun
2018-2023	Develop a therapeutic nano-vaccine against head and neck cancer NIH R01 DE-026728-01-A1, PI: Yu Lei, Co-I: Duxin Sun
2017-2022	Small-molecule MDM2 degraders NIH R01 CA-219345, PI: Shaomeng Wang, Co-I: Duxin Sun
2018-2023	Targeting the menin-MLL complex for new therapeutics NIH R01 CA-208267-01-A1, PI: Shaomeng Wang, Co-I: Duxin Sun
2019-2023	Development of first-in-class ST2 inhibitors for treating graft-versus-host disease NIH 7R01 HL-141432-02, PI: Chao-Yie Yang, Co-I: Duxin Sun
2017-2022	Novel McI-1 inhibitors for overcoming therapeutic resistance is colorectal cancer NIH R01 CA-217141, PI: Zaneta Nikolovska-Coleska, Co-I: Duxin Sun
2017-2022	Sputum microbial markers of type 2-low asthma NIH R01 Al129958, PI: Yvonne Huang, Co-I: Duxin Sun

2017-2022	Development of novel anti-leukemia agents targeting the menin-MLL interaction NIH R01 CA-160467-06, PI: Jolanta Grembecka, Co-I: Duxin Sun
2017-2022	Small-molecule degraders of BET proteins NIH R01 CA-215758-01, PI: Shaomeng Wang, Co-I: Duxin Sun
2016-2021	Targeting the MLL complex in Castration Resistant Prostate Cancer NIH R01 CA-200660-01-A1, PI: Jolanta Grembecka, Arul Chinnaiyan, Co-I: Duxin Sun
2019-2021	Nanoformulations of anticancer drugs to eliminate cancer stem cells NanoMedicine Innovation Center LLC, PI: Duxin Sun
2019-2021	Drug Optimization altering tissue targeting to improve efficacy/safety NanoMedicine Innovation Center LLC, PI: Duxin Sun
2018-2020	Precision guidance of germline B cells ex vivo for protective long-term immunity University of Michigan MCubed fund, PI: Wei Cheng Co-I: Duxin Sun, Irina Grigorova
2015-2020	ROS-targeted therapy for pancreatic cancer NIH R01-CA-188252-01-A1, PI: Nouri Neamati, Co-I: Duxin Sun
2015-2020	Efficacy of PDI inhibitors in glioblastoma NIH R01 CA193690-01, PI: Nouri Neamati, Co-I: Duxin Sun
2015-2020	Wireless Pharmaceutical Analysis Device (WPAD) and computational model to determine <i>in vivo</i> drug dissolution in GI tract for distinguishing meaningful product differences and ensuring bioequivalence (BE) FDA HHSF223201510146C, PI: Duxin Sun
2015-2020	Mechanisms of Mycobacterium tuberculosis pH-driven adaptation NIH R01 Al116605, PI: Robert Abramovitch, Consultant: Duxin Sun
2019-2020	Enhancing CD8+ T-Cell Activation via Bispecific liposomes to Deliver PD-L1 mAb to TDLNs UM Office of Research (UMOR), PI: Hongwei Chen, Co-I: Duxin Sun
2014-2019	SPORE in prostate cancer NIH 1P50CA186786-01, PI: Arul Chinnaiyan, Co-I: Duxin Sun
2017-2020	Isozyme-selective ALDH inhibitors for sensitizing ovarian cancer stem-like cells to chemotherapy NIH R01 CA-214567-01, PI: Scott Larsen, Co-I: Duxin Sun
2016-2019	Tissue distribution and pharmacokinetics of tyrosine kinase inhibitors (TKI) Celgene Corporation, PI: Duxin Sun
2014-2019	Randomized controlled trial to improve oncology nurses' protective equipment use CDC R01 OH010582-01. PI: Christopher Friese. Co-I Duxin Sun

2014-2018	Enhanced Oral Delivery of Low Solubility Drugs Using Cocrystal Design NIH R01 GM107146-01-A1, PI: Nair Rodriguez-Hornedo, Co-I: Duxin Sun
2016-2018	Development of small-molecule degraders of BET proteins for triple-negative breast cancer. The Breast Cancer Research Foundation, PI: Shaomeng Wang, Co-I: Duxin Sun
2015-2018	The development of small molecule inhibitors for Gaucher Disease Type 3 NIH UH2-NS-092981-01, UH3-NS-092981-02, PI: James Shayman, Co-I: Duxin Sun
2012-2018	University of Michigan Comprehensive Cancer Center support grant. NIH 2P30CA046592-24, PI: Eric Fearon, Co-I: Duxin Sun (PK Core director)
2013-2018	Targeted elimination of cancer stem cells for AML therapy NIH R01 CA171972-01A1, PI: Yang Liu, Co-I: Duxin Sun
2017-2018	Development of small magnetic nanoparticles for cell isolation and DNA detection IMRA America, Inc., PI: Hongwei Chen, Co-PI: Duxin Sun
2014-2018	Inhibition of the Rho/MRTF/SRF pathway as a new treatment for systemic sclerosis NIH R01 AR066049, PI: Scott D Larsen, Co-I: Duxin Sun
2013-2018	Targeting the MLL-WDR5 protein-protein interaction NIH R01 CA177307-01, PI: Shaomeng Wang, Yali Dou; Co-I: Duxin Sun
2014-2018	Discovering Novel Atypical PKC Inhibitors as in vivo Chemical Probes NIH R01 EY023725, PI: David Antonetti, Co-I: Duxin Sun
2016-2017	Pharmacokinetics and tissue distribution of Abraxane Celgene Corporation, PI: Duxin Sun
2015-2017	Drug tumor distribution impacts efficacy of tamoxifen analogs Celgene Corporation, PI: Duxin Sun
2013-2017	Modernization of <i>in vivo-in vitro</i> oral bioperformance prediction and assessment FDA HHSF223201310164C, Co-PI: Gordon Amidon, Co-PI: Duxin Sun
2014-2017	Targeting host deubiquitinases for broad spectrum anti-infective therapy NIH R21/R33 AI102106-03, PI: Mary O'Riordan, Co-I: Duxin Sun
2016-2017	Mechanisms of epigenetic regulation of transcription – new targets for cancer therapeutics. University of Michigan MCubed fund Pls: Duxin Sun, Shaomeng Wang, Thomas Kerppola
2016-2016	Altered elimination and metabolism of Abraxane in comparison with taxol in FcRn knockout and wild-type mice Celgene Corporation, PI: Duxin Sun

2012-2018	Mechanisms of motor neuron toxicity in Kennedy disease NIH R01 NS055746-06A1, PI: Andrew Lieberman, Co-I: Duxin Sun
2015-2017	Menin-MLL Inhibitor Program Kura Oncology, PI: Jolanta Grembecka, Co-I: Duxin Sun
2011-2017	Development of novel anti-leukemia agents targeting the menin-MLL interaction NIH R01 CA160467-01. PI: Jolanta Grembecka, Co-I: Duxin Sun
2016-2016	Development of polymer-coated magnetic nanoparticles for in vitro diagnostics IMRA America, Inc., PI: Hongwei Chen, Co-PI: Duxin Sun
2014-2016	Define and optimize tumor targeting properties to predict preclinical and clinical efficacy o anti-cancer agents Celgene Corporation, PI: Duxin Sun
2013-2016	Investigation of Release Profiles of Bupropion and Pharmacogenomics of Metabolism Enzymes for Bioequivalence of Generic Bupropion Products in Healthy Volunteers FDA HHSF223201310144C, PI: Duxin Sun
2013-2016	Novel Probes for Studying Treatment of CNS-based Lysosomal Storage Diseases NIH R01 HD076004-01, PI: Scott D Larsen, Co-I: Duxin Sun
2012-2016	Potent and Highly Selective D3 Ligands for the Treatment of Cocaine Abuse. NIH R01 DA032943. PI: Shaomeng Wang. Co-I: Duxin Sun
2014-2015	Pharmacokinetics and tumor distribution of different liposomal doxorubicin formulations Celgene Corporation, PI: Duxin Sun
2010-2015	Correlation of mesalamine pharmacokinetics with local availability FDA HHSF223201000082C, HHSF223201300460A, PI: Duxin Sun
2013-2015	Investigation of inequivalence of bupropion hydrochloride extended release tablets: <i>In vitro</i> metabolism quantification FDA HHSF223201310183C, PI: Duxin Sun
2014-2015	BET Bromodomain Inhibitors Oncofusion Therapeutics, 145038, PI: Shaomeng Wang, Co-I: Duxin Sun
2012-2014	In vivo proof of efficacy studies for a novel glucosylceramide synthase inhibitor with central nervous system activity NIH R21 NS079633-01, PI: James Shayman, Co-I: Duxin Sun
2010-2015	Menin-MLL Fusion Inhibitor Program Lymphoma and Leukemia Society. UM347450 /N013134-03. PI: Jolanta Grembecka. Co
2011-2015	I: Duxin Sun Receptor Na/K-ATPase antagonists as novel therapeutics for renal/cardiac diseases NIH R01 HL109015-01. PI: ZiJian Xie. Co-I: Duxin Sun

2013-2014	Drug Discovery to block protein-protein interactions for cancer therapy University of Michigan MCubed fund, Pls: Duxin Sun, Shaomeng Wang, Yali Dou.
2012-2014	Targeting breast cancer stem cells through combined PARP and Hsp90 inhibition DOD W81XWH-12-1-0147. PI: Suling Liu, Co-I: Duxin Sun
2007-2013	An integrated system for both tumor imaging and targeted drug therapy of cancer NIH R01 CA120023, PI: Duxin Sun.
2012-2013	DUB Inhibitors for Treatment of B-cell Malignancies Lymphoma and Leukemia Society. PI: Nick Donato. Co-I: Duxin Sun
2012-2013	CDNM pilot funds for drug discovery (Pharmacokinetics support) University of Michigan CDNM pilot funds. PI: Rick Neubig, Margaret Gnegy, Haoming Zhang. Co-I: Duxin Sun
2011-2013	Characterization, conjugation, and application of laser-generated gold nanoparticles for targeted drug delivery and tumor imaging. IMRA America Inc. N014096, PI: Duxin Sun
2012-2012	Targeting PDGF signaling in traumatic brain Injury. MICHR Pilot RD9. MICHR, PI: Dan Lawrence. Co-I: Duxin Sun
2009-2011	New molecular target and its inhibitors for use against pancreatic cancer NIH R21 CA143474, PI: Duxin Sun
2010-2011	Chaperones and Small Molecules NIH R01 NS059690-S1, Jason Gestwicki (PI), Duxin Sun (Co-I)
2009-2010	Novel inhibitors that disrupt the Hsp90-Cdc37 interaction for use against pancreatic cancer UM Comprehensive Cancer Center Research Grant UM 314174, PI: Duxin Sun
2007-2008	Targeted delivery of microbubble encapsulated fluorophores for cancer imaging Department of Defense (DOD) Concept Award BC062867, PI: Ronald Xu, Co-I: Duxin Sun
2006-2008	Chemical glycobiology of anthracyclines NIH R01 CA118208, PI: PG Wang, Co-I: Duxin Sun
2007-2008	Electrical measurements of gold nanoparticles in biological tissue for cancer detection (Seed grant, Institute for Materials Research (IMR) Interdisciplinary Materials Research Grant of OSU PI: Joseph Heremans, Co-I: Duxin Sun.
2005-2007	Targeted prodrug delivery for cancer therapy Ohio Cancer Research Associate (20020750), New Investigator Award, PI: D Sun
2006-2007	An integrated system for tumor detection and targeted drug therapy

	American Cancer Society (ACS) Institutional Research Grant (Seed grant) #IRG-67-003-44, PI: Duxin Sun
2004-2006	Site-specific activation of geldanamycin prodrug to target Hsp90 in cancer therapy PhRMA Foundation (20012144), Research Starter Grant for New Investigators, PI: Duxin Sun
2005-2006	In vitro cell systems and in vivo animal models to evaluate BA/BE and drug absorption for inhalation drug formulation FDA HHSF223200530511P, PI: Duxin Sun
2004-2005	Effect of excipients on permeability of transporter substrates for BCS class III compounds FDA D3921804, PI: Duxin Sun
2004-2005	Glucose transporters and targeted drug delivery for chemotherapeutic compounds in cancer therapy. AACP New Investigator Program (NIP, 20020001), PI: Duxin Sun
2004-2005	Targeted Drug Delivery for cancer treatment American Cancer Society (ACS) institutional grant (OSU Comprehensive Cancer

Honors and Awards

Honors and	Awards
2022	Fellow, American Association for the Advancement of Science (AAAS)
2014	Fellow, American Association of Pharmaceutical Scientists (AAPS)
2014	Marquis Who's Who in America (2015 Edition)
2004	2004 AAPS meritorious Manuscript Award
2003	Triumph Award for innovative formulation prototypes and screening to overcome pH-interaction <i>in vivo</i> of a weak base compound. Pharmaceutical Research Institute, Bristol-Myers Squibb Company.
2002	Highlight Poster Award in 29 th International Symposium on Controlled Release of Bioactive Materials. July 20-25, 2002. Seoul, Korea
2002	Bristol-Myers Squibb On the Spot Award for establishment of canine absorption model for bioequivalence/bioavailability and formulation strategies studies in Biopharmaceutics R&D
2001	CRS Cygnus Graduate Student Award for outstanding work in drug delivery. 28 th International Symposium on Controlled Release of Bioactive Materials. June 23-27, 2001. San Diego, CA
2001	Poster Award in XXXIII Annual Pharmaceutics Graduate Student Research Meeting (PGSRM), June 14-16, 2001. University of Wisconsin, Madison, Wisconsin
2001	AFPE Fellowship Award (American Foundation of Pharmaceutical Education)
2000	Fred Lyons Jr. Fellowship Award in the College of Pharmacy, University of Michigan
1999	Merck Fellowship Award in the College of Pharmacy, University of Michigan
1991	Young Investigator Outstanding Paper Award in the National Conference of Cardiovascular Pharmacology (first place)

Review for Grant Agencies and Other Invited Reviews

Center Seed Grant), PI: Duxin Sun

2023 NCI Cancer Center Site Visit, 2023/10 NCI-A RTRB-G (E1), ad hoc member, NIH

2022	NCI Cancer Center Study Section A, NCI-A RTRB-0 (R1), ad hoc member, NIH
2022	Ontario Research Fund, Ontario Canada, guest proposal reviewer
2022	UMB MS Regulatory Science Program, Graduate School & School of Pharmacy,
	University of Maryland, Baltimore, virtual program review
2021	NCI Cancer Center Study Section A, NCI-A RTRB-G (K1), ad hoc member, NIH
2021	Joint Institute for Translational and Clinical Research, JI RFP Review
2021	NCI WFBCCC, ad hoc member, NIH
2021	NCI Alliance for Nanotechnology in Cancer, Special Emphasis Panel (ZRG1IMST-M (55)), ad hoc member, NIH
2020	Cancer Nanotechnology Study Section (ZRG1IMST-M (55)), ad hoc member, NIH
2020	Gene and Drug Delivery Systems Study Section, ad hoc member, NIH
2020	NCI Oncology Sciences Fellowship (ZRG1 F09B-M (20) L), ad hoc member, NIH
2019	Joint Institute for Translational and Clinical Research Symposium
2019	NCI The Experimental Therapeutics Clinical Trials Network (ZCA1 RPRB-N (J1)),
	ad hoc member, NIH
2018 2018	Cancer Biotherapeutics and Development (ZRG1 OTC-E (10)), ad hoc member NIH NCI Omnibus Review R03 and R21 (ZCA1 TCRB-V (J1)), ad hoc member, NIH
2018	NCI Cancer Biotherapeutics Development Study Section, ad hoc member, NIH
2018	NANO Review panel, ad hoc member, NIH
2017	NIBIB Career Development (K) and Conference (R13) Applications panel, ad hoc member, NIH
2016	
	Development Award (K) Applications panel, ad hoc member, NIH
2016	NCI Special Emphasis Panel R50 (ZCA1 SRB-V (A1)), ad hoc member, NIH/NCI
2016	NCI Omnibus Review R02 and R21 (ZCA1 SRB-V (J1)), ad hoc member, NIH/NCI
2015	NCI Omnibus Exploratory (R21) and Small Grants (R03) Program – Cancer Biology (ZCA1 SRB-V (J1)), ad hoc member, NIH/NCI
2015	Prevent ToxPharm (ZCA1 TCRB-U (C3) B), ad hoc member, NIH/NCI
2014	Cancer Biology 3 study section (NCI Omnibus R21, ZCA1 SRLB-V (M1)), ad hoc
2042	member, NIH/NCI
2013	Development therapeutics study section, ad hoc member, NIH/NCI
2013	Omnibus Exploratory (R21) and Small Grants (R03) Program – Drug Development and Delivery (ZCA1 SRLB-2 (01)), ad hoc member, NIH
2013	NCI Ominibus and Cancer Developmental Therapeutics (ZCA1 SRLB-X (M1)), ad hoc member, NIH
2012	Developmental Therapeutics/Omnibus Review Committee (ZCA1 SRLB-D(J1)), ad
	hoc member, NIH
2012	Gene and drug delivery study section, ad hoc member, NIH
2012	University of Michigan OVRP program, ad hoc member
2011	Development therapeutics study section, ad hoc member, NIH/NCI
2011	Ohio Cancer Research Associate, Member
2011	Cancer Therapeutics (Special Emphasis Panel, ZRG1 OTC-K (05)), ad hoc member
2011	Innovative Technology Development (ZCA1 SRLB-Q (M1)), ad hoc member, NIH
2010	Health and Technologies Research, Department of Innovation, Italian Ministry of Health, Member, grant review
2010	Preclinical pharmacokinetic and pharmacological studies (ZCA1 SRLB-V (C1)),
2010	member, NIH
2010 2010	Gene and drug delivery study section, ad hoc member, NIH French National Research Agency (JCJC SVSE5), reviewer, France

2010	Development of anticancer agents (ZCA1 SELB-D (C1)), ad hoc member, NIH
2009	Ohio Cancer Research Associates, Member.
2009	Development of anticancer agents SBIR (topic 251), ad hoc member, NIH
2008	Cancer Research UK, external grant reviewer
2008	Multidisciplinary Research Grant (MRG) Program, North Carolina Biotechnology Center, Science & Technology Development Program
2008	Cancer Drug Development and Therapeutics SBIR/STTR Study Section ONC-X (14), ad hoc member, NIH
2008	Development of anticancer agents SBIR (topic 251, ZCA1 SRRB-D), ad hoc member, NIH
2008	FDA Office of Women's Health intramural scientific program, member, FDA
2007	Cancer Drug Development and Therapeutics SBIR/STTR Study Section, ad hoc member, NIH
2007	New Investigators Program for Pharmacy Faculty, AACP, member
2006	Xenobiotic and Nutrient Disposition and Action (XNDA) study section, ad hoc member, NIH
2006	The FDA Office of Women's health intramural scientific program, member, FDA
2005	AIDS therapeutics study section, ad hoc member, NIH
2005	Cancer Drug Development and Therapeutics SBIR/STTR study section, ad hoc member, NIH
2004	National Cooperative Drug Discovery Groups for Cancer (NCDDG) study section, ad hoc member, NIH

Professional Affiliations

2020-2021	American Society of Clinical Oncology (ASCO), member
2014-	American Association for the Advancement of Science (AAAS), member
2003-	American Association of Cancer Research (AACR), member
2003-	American Association of Colleges of Pharmacy (AACP), member
1998-	American Association of Pharmaceutical Scientists (AAPS), member

Professional Association and Agency Service

2023- 2016-	Chair, Nomination/Leadership Subcommittee, Section S Steering Committee, AAAS Member, Pharmaceutical Science and Clinical Pharmacology Advisory Committee, US Food and Drug Administration
2012-2012	Co-chairs, 47 th Arden Conference, March 2012, West Point, New York, NY
2011-2011	Co-chairs, roundtable: Current technologies in protein and peptide delivery. Oct. 2011, AAPS Annual Meeting, Washington DC.
2011-2011	Co-chairs, sunrise session: miRNA and SiRNA delivery. Oct 2011, AAPS Annual Meeting, Washington DC.
2011-2011	Co-Chairs, workshop: Emerging Oral Delivery and Technologies to Enable Biopharmaceutical Performance of BCS II, III and IV Molecules. April, 2011, Baltimore, MD
2010-2010	Co-Chairs of a round table, Can nanoparticle be simultaneously used for tumor imaging and targeted drug delivery, 2010 AAPS annual meeting, Nov 2010, New Orleans, LA
2011-2012 2009-2010 2009-2009	Chair, Physical Pharmacy and Biopharmaceutics (PPB) Section, AAPS Chair-Elect, Physical Pharmacy and Biopharmaceutics (PPB) Section, AAPS Vice President, Chinese American Pharmaceutical Association (ACPA)

2009-2009	Organizing committee for 45 th Annual Pharmaceutical Technologies Arden
0000 0000	Conference Formulation Strategies for Poorly Soluble Drugs
2009-2009	AAPS Meritorious Manuscript Award selection committee
2009-2009	AAPS Annual meeting program committee for 2010
2009-2009	Co-chairs for two roundtables in 2009 AAPS annual meeting: (1) Latest
	developments of drug targeting to cancer stem cells. (2) Tumor targeting using
2000 2000	nanotechnology-based drug delivery systems.
2009-2009	Co-chairs, AAPS Workshop on Evolving Science and Technology in Physical Pharmacy and Biopharmaceutics, May 2009
2008-2008	Vice Chair, Physical Pharmacy and Biopharmaceutics (PPB) Section, AAPS
2008-2008	Program committee for five symposia in 2008 AAPS annual meeting: (1) Tumor
	Imaging and Targeted Drug Delivery (sunrise session); (2) The World Within and
	Beyond P-gp: Do we Underestimate or Overestimate P-gp (roundtable); (3) Prodrug
	Approaches for Organ Specific Targeted Therapy (roundtable); (4) Rational Drug and Prodrug Design Via Computational Modeling (sunrise session); (5)
	Transporters as Prodrug Carriers for Oral Drug Delivery (roundtable)
2007-2008	Chair, Prodrug focus group, AAPS
2007-2008	Co-chairs, Tumor-activated prodrug and tumor-targeting technologies roundtable in
2007-2007	2007 AAPS annual meeting
2007-2007	Program committee, Prodrug approaches for site-specific cellular targets roundtable
	in 2007 AAPS annual meeting
2007-2007	Program committee, BE, BCS and Beyond, AAPS workshop
2006-2007	Chair-elect, Prodrug focus group, AAPS
2005-2007	Prodrug focus group steering committee, AAPS
2003-2006	Sub-chair, AAPS annual meeting abstract review committee (PDD section)
2004-2004	Organizing committee, Advances in biopharmaceutics and oral delivery, University of Michigan.
2003-2003	Co-chairs, Targeted Drug Delivery Symposium in 2003 AAPS Annual Meeting

Journal Editorial Board

AAPS Journal

AAPS Journal Guest Editors (Duxin Sun & Simon Zhou) for special issue: "Revisit Drug Absorption and Elimination in Design and Evaluation of Oral Modified Release Drug Products," November 2016.

Molecular Pharmaceutics, Advisory Board Member

Molecular Pharmaceutics, Guest Éditor of theme issue: Nanotheranostics Theranostics Acta Pharmaceutica Sinica B

University Committee Service

2008-	University of Michigan
2023-	Member, NPDC/CCG Joint Advisory Committee, University of Michigan
2023-	Member, Pharmacological Sciences Training Program (PSTP) Executive
	Committee, Department of Pharmacology, University of Michigan Medical School,
	Michigan Medicine
2023-	Member, Research Administration Advisory Council (RAAC) Faculty Advisory
	Council, Office of Research and Sponsored Projects, University of Michigan.
2023-	Executive Director of Development Search Committee, College of Pharmacy
2023-	Member, Martin Clasby Faculty Launch Committee, Faculty Development Office,

	NAC-Library NA - JC-to-			
0000	Michigan Medicine			
2022-	Dean of Record, Research Resources and Shared Equipment Committee, College			
	of Pharmacy			
2022-	Chair, Search Committee (PK faculty), Pharmaceutical Science, College of			
	Pharmacy			
2022-	Member, Promotions Committee (Zhu), Pharmaceutical Science, College of			
	Pharmacy			
2022-	Member, Promotions Committee (Hertz), Pharmaceutical Science, College of			
	Pharmacy			
2022-	Member, Computational Faculty Search Committee, Department of Medicinal			
	Chemistry, College of Pharmacy			
2022-	Dean of Record, Safety Committee, College of Pharmacy, University of Michigan			
2022-	Member, Space Committee, College of Pharmacy, University of Michigan			
2022-	Executive Committee, College of Pharmacy, University of Michigan			
2022-	Administrative Operations Committee, College of Pharmacy, University of Michigan			
2021-2022	Dean Search Committee, College of Pharmacy			
2020-2022	Member, NPDC/CCG Joint Advisory Committee, University of Michigan			
2019-2021	President, Association of Chinese Professors (ACP)			
2019-	PharmD Curriculum and Assessment, College of Pharmacy, University of Michigan			
2019-	Chair, Strategic Planning Committee, College of Pharmacy, University of Michigan			
2019-	Pharmacy Building Workshop for Shared Instrumentation Space, University of			
2019-	Michigan, College of Pharmacy			
2019-	Michigan Drug Discovery Core Directors, University of Michigan			
2019-	Member, Predoctoral Fellowship Decision Committee, University of Michigan			
2017-2017	U-M Faculty Grievance Panel			
2016-2022	Research Resources and Shared Equipment Committee, College of Pharmacy			
2016-2018	Graduate Recruitment and Admissions Committee, Department of Pharmaceutical			
0045 0040	Sciences, College of Pharmacy			
2015-2016	Graduate Education Committee, College of Pharmacy			
2013-2014	Dean Search Committee, College of Pharmacy			
2012-2014	Executive Committee, College of Pharmacy			
2012-2019	Core Leadership Team, Center for Discovery of New Medicines			
2012-2016	Faculty Search Committee, Department of Clinical, Social, and Administrative			
	Sciences, College of Pharmacy			
2012-2016	Adjunct Faculty Appointments Committee, College of Pharmacy, Department of			
	Pharmaceutical Sciences			
2012-2016	Strategic Planning and Leadership Committee, Department of Pharmaceutical			
	Sciences			
2011-2012	Searle Professorship Search Committee, College of Pharmacy			
2010-	Operating Committee, Program in Chemical Biology			
2009-2014	Faculty Development Committee, College of Pharmacy			
2009-2012	Senate Assembly Representative			
2009-2011	Academic Standing Committee, College of Pharmacy			
2002 2000	The Ohio State University			
2003-2008	The Ohio State University Strategic Planning Committee College of Pharmacy			
2003-2007	Strategic Planning Committee, College of Pharmacy			
2005-2008	Pharm D. Program Committee, College of Pharmacy			
2003-2005	Bachelor of Science of Pharmaceutical Science (BSPS) Program Committee,			
	College of Pharmacy			

2003-2008	Faculty Advisor of AAPS student chapter at the Ohio State University
2003-2008	Faculty Advisor of Biotechnology Focus Group

Teaching

2008-	University of Michigan			
2023	PharmSci 760, Advanced Pharmacokinetics			
2022	PharmSci 608, Basic and Clinical Pharmacokinetics			
2022	PharmSci 608, Basic and Clinical Pharmacokinetics			
2021	PharmSci 760, Advanced Pharmacokinetics & Biopharmaceutics			
2020	PharmSci 718, Biopharmaceutics & Pharmacogenomics			
0040	PharmSci 608, Basic and Clinical Pharmacokinetics			
2019	PharmSci 760, Advanced Pharmacokinetics			
	PharmSci 718, Biopharmaceutics & Pharmacogenomics			
2010	PharmSci 608, Basic and Clinical Pharmacokinetics			
2018	PharmSci 718, Biopharmaceutics & Pharmacogenomics			
	PharmSci 718, Biopharmaceutics & Pharmacogenomics PharmSci 700, Biopharmaceutics & Drug Disposition			
	PharmSci 700, Biopharmaceutics & Drug Disposition PharmSci 718, Biopharmaceutics & Pharmacogenomics			
2015	PharmSci 716, Biopharmaceutics & Pharmacogenomics PharmSci 563, Biopharmaceutics & Pharmacogenomics			
2014	PharmSci 700, Biopharmaceutics & Frial Macogeriornics PharmSci 700, Biopharmaceutics & Drug Disposition			
2013	PharmSci 464, Pharmacokinetics & Biopharmaceutics			
2012	PharmSci 464, Pharmacokinetics & Biopharmaceutics			
2012	PharmSci 700, Biopharmaceutics and Drug Disposition			
2011	PharmSci 464, Pharmacokinetics & Biopharmaceutics			
2011	PharmSci 465, Biopharmaceutics and Pharmacogenomics			
2011	PharmSci 702, Pharmaceutical Design, Delivery, and Targeting (PDDT): Biological-			
	Molecular Concepts in PDDT			
2011	ChemBio 602, Critical Analysis in Chemical Biology			
2010	PharmSci 700, Biopharmaceutics and Drug Disposition			
2010	PharmSci 464, Pharmacokinetics & Biopharmaceutics			
2010	BME 321, Bioreaction Engineering and Design			
2009	PharmSci 464, Pharmacokinetics & Biopharmaceutics			
2009	PharmSci 762, Fundamentals of Drug Delivery			
2009	PharmSci 757, Drug Transport			
2009	BME 321, Bioreaction Engineering and Design			
2003-2008	The Ohio State University			
2003-2008	Pharmacy 804, Drug transport			
2003-2008	Pharmacy 622, Drug delivery II			
2003-2008	Pharmacy 732, Pharmacogenomics			
2003-2008	Pharmacy 694, Drug discovery and development			
2003-2008	Pharmacy 850, Ph.D student seminar for Pharmaceutics program			
2006	OSBP 760, Ph.D. student seminar for Ohio Sate Biochemistry Program			
2007	MCDB 800/890, Ph.D. student seminar for MCDB Program			

Current PhD Graduate Students

2019-	Yingzi Bu	Ph.D. student
2019-	Luchen Zhang	Ph.D. student

2020-	Zera Montmayor	Ph.D. student
2020-	Chengyi Li	Ph.D. student
2022-	Natalie Jusko	Ph.D. student
2022-	Hanning Wen	Ph.D. student

Current Postdoctoral Research Fellows, Research Associates, and Visiting Scientists

Current Po	<u>ostdoctoral Research Fell</u>	<u>lows, Research Associates, and Visiting Scientists</u>
2012-	Bo Wen	Postdoctoral research fellow 2012-2013;
		Research lab specialist 2013-2019,
		Assistant Director 2019-
2014-	Miao He	Visiting research investigator, 2013-2018;
		Research lab specialist associate, 2018-
2017-	Lu Wang	Postdoctoral research fellow, 2017-2021,
	G	Research Lab Specialist Inter 2021-
2017-	Wei Gao	Postdoctoral research fellow, 2017-2022,
		Asst Research Scientist 2022-
2018-	Aleksas Matvekas	Laboratory tech general assoc, 2018-2021,
		Research Lab Tech Lead 2021-
2020-	John Takyi-Williams	Postdoctoral research fellow
2020-	Mohamed Abdelnabi	Clinical studies coordinator
2021-	Zhongwei Liu	Postdoctoral research fellow
2021-	Meilin Wang	Visiting research Scientist, 2021-2023
	3	Research Lab Specialist, 2023-
2022-	Shuai Mao	Visiting assoc research scientist
2022-	Hong-Yi Zhao	Postdoctoral research fellow
2022-	Ankhabayar Lkhagva	Postdoctoral research fellow
2022-	Jinsong Ťao	Postdoctoral research fellow
2022-	Yi Jia	Postdoctoral research fellow
2022-	Qiuxia Li	Laboratory tech general assoc
2022-	Farzad Sarkari	Laboratory tech general assoc
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Past Ph.D. Graduate Students (Year of graduation, their Current Positions)

Xianhua Cao Lanyan (Lucy) Fang	Ph.D. 2007, Senior Scientist, Abbott Labs Ph.D. 2007, Scientist reviewer, FDA
Seth Gibbs	Ph.D. 2008, Senior Scientist, Battelle, Columbus, OH
Tao Zhang	Ph.D. 2010, Assistant Professor, Husson University
Yanyan Li	Ph.D. 2010, Co-advised with Steven Schwartz.
	Assistant Professor, Montclair State University
Yiqun Jiang	Ph.D. 2010, Thesis research. Associate Professor, Jilin
71	University
Znenkun Znu	Ph.D. 2010, Thesis research. Lecturer, Shandong University
Mancang Gu	Ph.D. 2010, Thesis research. Lecturer, Zhejiang
	Traditional Chinese Medicine University
Yanke Yu	Ph.D. 2011, Senior Scientist, Eisai Co. Ltd
Peng Zou	Ph.D. 2011, Scientist, FDA
Shuwen Yu	Ph.D. 2012, Thesis research. Director of Pharmacy, Shandong University
Yiling Liu	Visiting Ph.D. student for thesis research; Jilin University
	Lanyan (Lucy) Fang Seth Gibbs Tao Zhang Yanyan Li Yiqun Jiang Zhenkun Zhu Mancang Gu Yanke Yu Peng Zou Shuwen Yu

2005-2012 2006-2012	Hsiu-Fang (Sarah) Lee Bryan Newman	Ph.D. 2012, Project Manager, Trialynx Inc. Ph.D. 2012, FDA
2012-2014	Xiaoqing Ren	Visiting Ph.D. student for thesis research; Fudan University
2014-2014	Yue Liu	Visiting Ph.D. student for thesis research; Second
2014-2014	Chun Tao	Military Medical University Visiting Ph.D. student for thesis research; Second Military Medical University
2009-2015	Joseph Burnett	Ph.D. 2015; Assistant research scientist, University of Michigan College of Pharmacy
2010-2015	Jamie Connarn	Ph.D. 2015; Scientist I, Celgene Corporation
2010-2015	Hayley Paholak	Ph.D. 2015; Medical Writer II, MMS Holdings
2015-2016	Xin Luan	Visiting Ph.D. student for thesis research, 2015-2016;
		postdoctoral research fellow, University of Michigan
		College of Pharmacy
2011-2016	Rebecca Moody	Ph.D. 2016, Chief Scientific Officer, NanoMedicine
		Innovation Center
2013-2017	Ila Myers	Ph.D. student, 2013-2017, University of Michigan
2011-2017	Kanokwan Sansanaphongpricha	Ph.D. 2017, Researcher, National Science and
		Technology Development Agency, Thailand
2017-2018	Ling Zhang	Visiting Ph.D. student for thesis research, 2017-2018
2013-2018	Alex Yu	Ph.D. 2018, Johnson and Johnson
2012-2018	Mari Gasparyan	Ph.D. 2018
2012-2018	Chang-Ching (Albert) Lin	Ph.D. 2018, Postdoctoral Researcher, UT Southwestern
		Medical Center
2017-2019	Ryan Clauson	Ph.D. 2019, Research Scientist, Torigen Pharmaceutical
2014-2020	Nathan Truchan	Ph.D. 2020, Research Scientist, NMIC
2015-2020	Jamie Do	Ph.D. 2020, Patent Agent, Singular Genomics
2015-2020	Garrett Johnson	Ph.D. 2020, Postdoctoral Fellow, University of Michigan
2016-2022	Hongxiang Hu	Ph.D. 2022, Research Investigator, BMS in Summit, NJ

Past Postdoctoral Research Fellows, Research Associates, and Visiting Scientists

2022-2023	Wenjing Zhang	Postdoctoral research fellow
2018-2023	Krishani Rajanayake	Postdoctoral research fellow
		Research Lab Specialist Assoc
2017-2023	Mady Traore	Postdoctoral research fellow, 2017-2022
		Research Investigator 2022-2023
2021-2022	Alejandra Duran	Laboratory tech general assoc
2019-2022	Ruiting Li	Postdoctoral research fellow
2022-2022	Hamidreza Ardalani	Postdoctoral research fellow
2021-2022	Nathan Truchan	Postdoctoral research fellow, 2021-2022,
		Research Investigator 2022-2022
2020-2022	Djibo Mahamadou	Postdoctoral research fellow
2019-2022	Yudong Song	Postdoctoral research fellow
2014-2021	Hebao Yuan	Assistant research scientist, 2014-2019;
		Research Lab Specialist Senior, 2020-2021
2021-2021	Garrett Johnson	Postdoctoral research fellow
2015-2021	Joseph Burnett	Postdoctoral research fellow, 2015-2017;
	•	Assistant research scientist, 2017-2021

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2021-2021	Xiang Gao	Research associate II
2016-2020	Jeremy Felton	Postdoctoral research fellow
2018-2020	Cai Liu	Postdoctoral research fellow
2016-2020	Lipeng Dai	Postdoctoral research fellow
2019-2020	Cao Yan	Visiting research scientist
2019-2020	Langdong Chen	Visiting research scientist
2018-2020	Yang Chen	Postdoctoral research fellow
2011-2019	Hongwei Chen	Postdoctoral research fellow, 2011-2012;
		Assistant research scientist, 2012-2018;
		Research assistant Professor, 2018-2019
2018-2020	Jizhao Xie	Visiting research scientist
2017-2019	Praveen Kumar	Postdoctoral research fellow
2019-2019	Hongjuan Bi	Visiting research scientist
2015-2019	Yanyan Han	Research associate, 2015-2018
	Š	Research Lab specialist intermediate 2018-2019
2017-2019	Inkyung Jung	Postdoctoral research fellow
2018-2018	Qingshan Chen	Visiting research scientist
2015-2018	Jinhui Liao	Research associate
2015-2018	Pan Shu	Postdoctoral research fellow
2016-2018	Xin Luan	Postdoctoral research fellow
2014-2018	Miao-Chia Lo	Assistant research scientist
2014-2018	Mark Koenigsknecht	Postdoctoral research fellow, 2014-2016
	gg	Senior research fellow, 2016-2018
2014-2017	Siwei Li	Postdoctoral research fellow
2015-2017	Feng Li	Postdoctoral research fellow
2013-2017	Ann Fioritto	Clinical study coordinator
2016-2017	Nicholas Stevers	Lab technician
2016-2017	Takahiro Iwao	Visiting research scientist
2016-2017	Rebecca Moody	Postdoctoral research fellow
2016-2016	Jinhua He	Visiting research scientist
2015-2016	Hongwei Guo	Visiting research scientist
2015-2016	Yongtai Zhang	Visiting research scientist
2015-2016	Hongyan Zhu	Visiting research scientist, 2015-2016
2015-2016	Jianjun Zou	Visiting research scientist
2015-2016	Qingfa Tang	Visiting research scientist
2016-2016	Yanyan Li	Visiting research scientist
2015-2016	Tao Zhang	Visiting research scientist
2013-2016	Ruijuan Luo	Research associate
2015-2015	Anjie Dong	Visiting research scientist
2014-2015	Fangying Xu	Visiting research scientist
2014-2015	Jun Liao	Visiting research scientist
2014-2018	Huixia Zhang	Visiting MS student, 2014-2015;
		Visiting research scientist, 2015-2018
2011-2015	Ting Zhao	Research associate
2014-2015	Ying Wang	Visiting research scientist, 2014;
	···•	Postdoctoral research fellow, 2014-2015
2014-2015	Jiao Yang	Visiting research scientist
2014-2014	Yanqiang Zhong	Visiting research scientist
2014-2014	Liang Zhao	Visiting research scientist
	g	

2013-2014	Yi Wei	Research associate
2013-2014	Feng Ni	Visiting research scientist
2013-2014	Li Qiu	Visiting research scientist
2013-2014	Changhong Wang	Visiting research scientist
2011-2014	Mike Bly	Research lab specialist intermediate
2013-2014	Meng Lei	Visiting research scientist
2012-2014	Honglin Ren	Visiting scientist
2012-2013	Lichao Sun	Postdoctoral research fellow
2012-2013	Hao Zou	Visiting scientist
2012-2013	Min Li	Visiting scientist
2012-2013	Masayuki Ito	Visiting scientist
2012-2013	Yuki Ichikawa	Visiting scientist
2010-2013	Xiaoqin Li	Postdoctoral research fellow
2011-2012	Lei Duan	Visiting scientist
2011-2011	Hai Zhang	Visiting scientist
2011-2012	Yasuhiro Tsume	Postdoctoral research fellow
2010-2011	Yiqun Jiang	Postdoctoral research fellow
2009-2011	Wenpeng Zhang	Postdoctoral research fellow
2009-2010	Young Ho Seo	Postdoctoral research fellow
2007-2008	Bin Wang	Postdoctoral research fellow
2006-2007	Huifei Cui	Visiting scholar
2004-2006	Guisheng Zhang	Postdoctoral research fellow
2003-2005	Hao Cheng	Postdoctoral research fellow

Master Students and Undergraduate Students for Thesis Research

2003-2005	Heather Miller (MS)	MS, Ohio State University
2005-2005	Josephine Aimiuwu (BS)	Honor thesis, Ohio State University
2005-2007	Robert Battisti (BS)	Honor thesis, Ohio State University
2010-2010	Anna Jenks (BS)	Research credit, University of Michigan
2011-2011	Maya Kalyan (BS)	Research credit, University of Michigan
2011-2011	Aditya Bharadwaj (BS)	Research credit, University of Michigan
2011-2011	Jimmy Li (BS)	Summer Research, University of Michigan
2011-2011	Vivian Pang (BS)	Research credit, Eastern Michigan University
2011-2011	Neha Kaushal (MS)	Research credit, University of Michigan
2012-2012	Jian Zhong (BS)	Summer Research, Xian Jiao Tong University
2012-2012	Jiwan Gurung (MS)	Visiting student, University of Bath, UK
2013-2015	Nicholas Stevers	Undergraduate student research assistant
2013-2014	Sara Brown	Undergraduate student research assistant
2014-2015	Huixia Zhang	Visiting MS student
2019-2019	Rachel O'Rourke	Research Credit, University of Michigan
2023-2023	Nicholas Yang	Research Credit, University of Michigan
2023-2023	Shalaka Abhyankar	Research Credit, University of Michigan
2023-2023	Albert Cao	Visiting BS student, Univ of Maryland Baltimore

Ph.D. Students for Lab Rotation

2023-2023	Xinyao Wang	Biomedical Engineering
2022-2022	Julia Catalano	Pharm Sci student
2022-2022	Natalie Jusko	Pharm Sci student

2022-2022 2022-2022 2021-2021 2021-2021 2021-2021 2021-2021 2021-2021 2021-2021 2021-2021 2020-2020 2020-2020 2020-2020 2019-2019 2019-2019 2019-2019 2019-2019 2019-2019 2019-2019 2019-2019 2019-2019 2019-2019	Alexander Meyer Cecilia Specia Zhixin Yu Hanning Wen Namir Khalasawi Yunxuan Xie Vivian Juang Adaeze Eneli Andrea Villarreal Hannah Naldrett Mary Villarreal Zera Montemayor Antonela Rodriguez Fang Xie Chengyi Li Sunny Min Ziyun Xia Yinzhe Liu Manali Sawant Xin Ju	Pharm Sci student ChemBio student ChemBio student Pharm Sci student
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	Mery Vet George De la Rosa	Pharm Sci student
2018-2018 2018-2018	Kristen Hong Cameron White	Pharm Sci student
2018-2019	Junius Thomas	Chem Bio student
2018-2019	Xiao Liu	Pharm.D. student
2018-2018	Andrew Willmer	Pharm.D. student
2018-2018	Emily Makowski	Pharm Sci student
2017-2017	Jung Won Kwon	Pharm.D. student
2016-2017	Alyssa Loecher	Pharm.D. student
2013-2013	Khoa Nguyen	Pharm.D. student
2012-2012	Hsiao Ng	Pharm.D. student
20052005	Nancy Pham	Pharm.D. student
2003-2006	Sulk Chan	Pharm.D. student

Graduate Student Thesis Committee

2003-2003 2003-2003 2004-2004 2004-2004 2004-2004 2004-2004 2005-2005 2005-2005 2005-2005 2006-2006	Liang Zhao Minoli Perera Jongham Kim Jiyun (Sunny) Chen Adam Ogden Greg Lyness Scott Fisher Eun Joo Hurh Jun Yang Casey Bohl Na Guan Yan Xin	Ph.D. Div. of Pharmaceutics, College of Pharmacy, OSU MS, Div. of Pharmaceutics, College of Pharmacy, OSU Ph.D. Div. of Pharmaceutics, College of Pharmacy, OSU Ph.D. Div. of Pharmaceutics, College of Pharmacy, OSU Ph.D. Div. of Pharmaceutics, College of Pharmacy, OSU MS, Div. of Pharmaceutics, College of Pharmacy, OSU Ph.D. Div. of Pharmaceutics, College of Pharmaceutics, Colle
2006-2006 2006-2006	Yan Xin Dan Lu	Ph.D. Div. of Pharmaceutics, College of Pharmacy, OSU Ph.D. Div. of Pharmaceutics, College of Pharmacy, OSU

2000 2000	line Cons	Dh. D. Danantosant of Missahialanu. Chandona Hairensitu
2006-2006	Jing Song	Ph.D. Department of Microbiology, Shandong University
2006-2006	Xiaogang Pan	Ph.D. College of Pharmacy, OSU
2006-2006	Ju-Ping Lai	Ph.D. candidate, College of Pharmacy, OSU
2006-2008	Qing Liu	Ph.D. candidate, College of Pharmacy, OSU
2007-2007	Weiping Ye	Ph.D. College of Veterinary Medicine, OSU
2006-2008	Jacqqeline Lieblein	Ph.D. candidate, OSBP, OSU
2007-2008	Jianning Yang	Ph.D. candidate, College of Pharmacy, OSU
2007-2008	Liuqing Yang	Ph.D. candidate, College of Pharmacy, OSU
2007-2008	Robbie Kidd	Ph.D. candidate, College of Pharmacy, OSU
2007-2007	Kimberly N. Becker	Undergrad honors Thesis, College of Pharmacy, OSU
2006-2008	Ran Zhao	Ph.D. candidate, OSBP, OSU
2007-2008	Ling Cen	Ph.D. OSBP, OSU
2007-2007	Jie Shen	Ph.D. Chemistry, OSU
2007-2008	Jian Yang	Ph.D. candidate, Med Chem, College of Pharm, OSU
2008-2008	Xiaojuan Yang	Ph.D. candidate, Pharmaceutics, College of Pharm, OSU
2008-2008	Amada Jones	Ph.D. candidate, Pharmaceutics, College of Pharm, OSU
2008-2008	Sunjoo Ahn	Ph.D. candidate, Pharmaceutics, College of Pharm, OSU
2008-2008	Jackie Ji	Ph.D. candidate, Pharmaceutics, College of Pharm, OSU
2008-2008	Chien-Ming Li	Ph.D. candidate, Pharmaceutics, College of Pharm, OSU
2008-2010	Shu Pei Wu	Ph.D. candidate, Pharm Science, College of Pharm, UM
2009-2009	Kefeng Sun	Ph.D. candidate, Pharm Science, College of Pharm, UM
2009-2009	Shweta Urva	External reviewer of PhD dissertation, School of Pharm
2000 2000	oota oa	& Pharmaceutical Science, Univ Buffalo
2009-2009	Bei Yang	Ph.D. candidate, Pharm Science, College of Pharm, UM
2009-2009	Maria Posada	Ph.D. candidate, Pharm Science, College of Pharm, UM
2009-2009	Kyoung Ah Min	Ph.D. candidate, Pharm Science, College of Pharm, UM
2009-2009	Lily Roy	Ph.D. candidate, Pharm Science, College of Pharm, UM
2009-2011	Cara Hartz	Ph.D. candidate, Pharm Science, College of Pharm, UM
2009-2011	Hugo Fung	Ph.D. candidate, Chemical Biology, UM
2010-2015	Oluseyi Adeniyi	Ph.D. candidate, Pharm Science, College of Pharm, UM
2010-2010	Anne Gillies	Ph.D. candidate, Chemical Biology, UM
2010-2010	Fardokht Abulwerdi	Ph.D. candidate, Chemical Biology, UM
2010-2010	Yehua Xie	Ph.D. candidate, Pharm Science, College of Pharm, UM
2012-2012	Sharan Shrinivasan	Ph.D. candidate, Chemical Biology, UM
2012-2015	Brian Larsen	Ph.D. candidate, Chemical Biology, UM
2012-2016	Xiaomei Chen	Ph.D. candidate, Pharm Science, College of Pharm, UM
2013-2016	Ahmed Mady	Ph.D. candidate, Med Chem, Medical Ctr., UM
2013-2013	Max Mazzara	Ph.D. candidate, Pharm Science, College of Pharm, UM
2013-2015	Yongjun Hu	Ph.D. candidate, Pharm Science, College of Pharm, UM
2013-2016	Fengjuan Cao	Ph.D. candidate, Pharm Science, College of Pharm, UM
2013-2017	Stephanie Gates	Ph.D. candidate, Chemical Biology, UM
2013-2013	Chris Holt	Ph.D. candidate, Med Chem, UM
2013-2013	Rui Kuai	Ph.D. candidate, Pharm Science, College of Pharm, UM
2014-2017	Morgan Giles	Ph.D. candidate, Pharm Science, College of Pharm, UM
2014-2017	Xiaoxing Wang	Ph.D. candidate, Pharm Science, College of Pharm, UM
2014-2017	James Song	Ph.D. candidate, Chemical Biology, UM
2014-2017	Jae Min Shin	D.D.S./Ph.D. School of Dentistry, UM
2014-2017	Shuai Hu	Ph.D. candidate, Med Chem, UM
2015-2019	Zhilin Chen	Ph.D. candidate, Med Chem, OM Ph.D. candidate, Pharm Science, College of Pharm, UM
2013-2013	ZIIIIII OHGH	Th.D. Candidate, I haim Science, College of Fhaim, OW

2015-2025 Chengcheng Zhang 2015-2015 Dan Li Ph.D. candidate, Chemistry, UM 2015-2019 Vuchen Fan Ph.D. candidate, Pharm Science, College of Pharm, UM 2015-2019 Patrick Sinko Ph.D. candidate, Pharm Science, College of Pharm, UM 2015-2019 Patrick Sinko Ph.D. candidate, Pharm Science, College of Pharm, UM 2015-2016 Joseph Labuz Ph.D. Biomedical Engineering, College of Pharm, UM 2016-2019 Sang Yeop Kim Ph.D. candidate, Pharm Science, College of Pharm, UM 2016-2019 Sang Yeop Kim Ph.D. candidate, Pharm Science, College of Pharm, UM 2016-2020 Lindsay Scheetz Ph.D. candidate, Pharm Science, College of Pharm, UM 2016-2016 Lindsay Scheetz Ph.D. candidate, Pharm Science, College of Pharm, UM 2016-2016 David Mertz Ph.D. candidate, Pharm Science, College of Pharm, UM 2017-2021 Karson Kump Ph.D. candidate, Pharm Science, College of Pharm, UM 2017-2021 Chang Lee Ph.D. candidate, Pharm Science, College of Pharm, UM 2018-2022 Matt Schnizlein Ph.D. candidate, Pharm Science, College of Pharm, UM 2018-2023 James Song Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2023 Glory Velazquez Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2023 Glory Velazquez Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Kai Wang Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Kai Wang Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Kai Wang Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Chapteng Xiao Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Chapteng Xiao Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Kai Wang Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Chapteng Xiao Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Chapteng Xiao Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Chapteng Xiao Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Chapteng Xiao Ph.D. candidate, Pharm Science, College of Pharm, UM 2019-2021 Chapteng Xiao Ph.D. student, Pharm Sciences, UM 2021- Sunny Jun	2015-2019	Daniel Epling	Ph D	candidate, Pharm Science, College of Pharm, UM
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High School Students for Summer Research

2011-2012 Yuxuan Chen Summer Research

2012-2012	Jimmy Li	Summer Research
2012-2012	Connie Yang	Summer Research
2019-2019	Daeun Nam	Summer Research
2022-2022	David Chen	Summer Research

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Meeting Abstracts

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- 61 Hsiu-Fang Lee, Bryan Newman, Suling Liu, Hasan Korkaya, Shawn G. Clouthier, Sean P McDermott, Max S. Wicha, and **Duxin Sun** HDAC inhibitor SAHA suppressed breast cancer stem cells in vitro and in vivo. 2011 AACR Annual meeting, April 2-6, 2011. Orlando, FL.
- 62 Newman B, Zhang Q, Lu Y, Zhao J, Ding Y, Ma w, Fan H, Long J, Zhang H, Wang M, **Duxin Sun**. Analogue CY-9. 2011 AACR Annual meeting, April 2-6, 2011. Orlando, FL.
- 63 Y Li, Karagoz E, Seo Y, Zhagn T, Jiang Y, Yu Y, Schwartz S, Caroll K, Rudiger S, **Duxin Sun**. Sulforaphane inhibits Hsp90 by disrupting superchaperone complexes through direct interaction with specific residues of Hsp90/CDC37 in Pancreatic cancer cells. 2010 AAPS Annual Meeting, Nov 14-18, New Orleans, LA.
- 64 Hsiu-Fang Lee, Bryan Newman, Hasan Korkaya, Suling Liu, Shawn G. Clouthier, David Z. D'Argenio, Max S. Wicha, and **Duxin Sun** Pharmacokinetic Analysis and Dose Optimization of 17AAG for Efficient Inhibition of Breast Cancer Stem Cells *In Vivo*. 2010 AAPS Annual Meeting, Nov 14-18, New Orleans, LA.
- 65 Tao Zhang, Peng Zou, Donna McEachern, Jing-yu (Jerry) Yu, Yanyan Li, David Z. D'Argenio, Shaomeng Wang, and **Duxin Sun**. Physiologically Based Pharmacokinetic Modeling for a Small Molecule Mimetic (AT-406) of Smac in Tumor-Bearing Mice after Oral Administration. 2010 AAPS Annual Meeting, Nov 14-18, New Orleans, LA.
- 66 Yanke Yu, Suzanna Zick, XiaoQin Li, Peng Zou, Duxin Sun LC-MS/MS determination of 6-Gingerol, 8-Gingerol, 10-Gingerol and 6-Shogaol and their Pharmacokinetics in human clinical trial. 2010 AAPS Annual Meeting, Nov 14-18, New Orleans, LA.
- 67 Peng Zou, Nan Zheng, Yanke Yu, Shanghai Yu, Wei Sun, Shaomeng Wang, **Duxin Sun** Prediction of clearance and volume of distribution in human of a novel MDM2 inhibitor (MI-219) using in vitro liver microsomal metabolism and in vivo pharmacokinetics in animals. 2010 AAPS Annual Meeting, Nov 14-18, New Orleans, LA.
- 68 Peng Zou, Yanke Yu, Y. Andrew Wang, Shaomeng Wang, **Duxin Sun** Superparamagnetic iron oxide nanoparticle "theranostics" for targeted cancer cell imaging and pH-dependent intracellular drug release for targeted drug delivery. 2010 AAPS Annual Meeting, Nov 14-18, New Orleans, LA.
- 69 Yanke Yu, Zhenkun Zhu, Yiqun Jiang, Yanyan Li, Peng Zou, Tao Zhang, Jason E. Gestwicki, and **Duxin Sun** Synergistic anticancer effect of Withaferin A and Myricetin in pancreatic cancer cells through inhibition of Hsp70. 2010 AAPS Annual Meeting, Nov 14-18, New Orleans, LA.

- 70 Peng Zou, Tao Zhang, Xiaoqin Li, Shanghai Yu, Wei Sun, Shaomeng Wang, **Duxin Sun** Identification and inhibition of cytochrome P450 for metabolisms of a novel MDM2 inhibitor (MI-219). 2010 AAPS Annual Meeting, Nov 14-18, New Orleans, LA.
- 71 Yanyan Li, Tao Zhang, Hasan Korkaya, Suling Liu, Hsiu-Fang Lee, Bryan Newman, Yanke Yu, Shawn Clouthier, Steven Schwartz, Max Wicha, **Duxin Sun**. Sulforaphane, a Dietary Component of Broccoli/Broccoli Sprouts, Inhibits Breast Cancer Stem Cells. AACR 101 annual meeting, April 17-21, 2010, Washington DC.
- 72 Yiqun Jiang, Denzil Bernard, Yanke Yu, Tao Zhang, Yanyan LI, Xueqi Fu, Shaomeng Wang, **Duxin Sun**. Characterization of Hsp90/Cdc37 interaction and their critical residues using luciferase fragment complementation imaging. AACR 101 annual meeting, April 17-21, 2010, Washington DC.
- 73 Zhenkun Zhu, Xin Xu, Yanke Yu, Martin Graham, Gangli Liu, Mark Prince, Thomas Carey, **Duxin Sun**. Heat shock protein 27 increases metastasis of human head and neck squamous cancer cells *in vitro*. AACR 101 annual meeting, April 17-21, 2010, Washington DC.
- 74 Yanyan Li, Tao Zhang, Steven Schwartz, **Duxin Sun**. Sulforaphane sensitizes pancreatic cancer to 17-AAG by interfering with Hsp90/co-chaperone interaction. AAPS annual meeting, Nov 8-12, 2009, Los Angeles, CA
- 75 Tao Zhang, Yanyan Li, Peng Zou, Yabnke Yu, **Duxin Sun**. Characterization of celastrol to inhibit Hap90/Cdc37 interaction. AAPS annual meeting, Nov 8-12, 2009, Los Angeles, CA
- 76 Peng Zou, Michelle M. Carlton, George H. Hinkle, Nathan C. Hall, Stephen P. Povoski, Ronald X. Xu, Cathy M. Mojzisik, Morgan A. Johnson, Michael V. Knopp, Edward W. Martin, Jr, and **Duxin Sun**. Comparison of ¹²⁴I-HuCC49∆C_H2 and ¹⁸FDG for PET imaging of colorectal cancer. AAPS annual meeting, Nov 8-12, 2009, Los Angeles, CA
- 77 Peng Zou, **Duxin Sun**. Metabolism of 17-(dimethylaminoethylamino)-17-demethoxygeldanamycin (17-DMAG) in Human and Rat Liver Microsomes by Liquid Chromatography Tandem Mass Spectrometry. AAPS annual meeting, Nov 8-12, 2009, Los Angeles, CA
- 78 Yanke Yu, Adel Hamza, Tao Zhang, Mancang Gu, Peng Zou, Bryan Newman, Yanyan Li, A. A. Leslie Gunatilaka, Chang-Guo Zhan, and **Duxin Sun**. Withaferin A Targets Heat Shock Protein 90 in Pancreatic Cancer Cells. AAPS annual meeting, Nov 8-12, 2009, Los Angeles, CA.
- 79 Hsiu-Fang Lee, B Newman, H. Korkaya, S. Liu, S. Clouthier, M Wicha, **D Sun**. HSP90 Inhibitor 17AAG Suppresses the Breast Cancer Stem/Progenitor Cell Population. AAPS annual meeting, Nov 8-12, 2009, Los Angeles, CA
- 80 B Newman, HF Lee, Y Liu, **D Sun**, Y Wang. 17AAG-mediated Hsp90 Inhibition is an Effective Means against Lymphoma Cancer Stem Cells. AAPS annual meeting, Nov 8-12, 2009, Los Angeles, CA
- 81 Yanyan Li, Tao Zhang, Steven J. Schwartz, and **Duxin Sun**. EGCG Inhibits Hsp90 Function by Impairing Hsp90 Association with Cochaperones in Pancreatic Cancer Cells. AACR Annual meeting, Denver, CO, April 2009
- 82 Tao Zhang, Yanyan Li, and **Duxin Sun**. Combination of Hsp90 inhibitors and MEK Inhibitors abrogates ERK Activation in Pancreatic Cancer Cells. AACR Annual meeting, Denver, CO, April 2009
- 83 Sears, R. Bryan; Turro, Claudia; Heremans, Joseph; **Sun, Duxin**; Martin, Edward. Development of An Intra-Operative Probe for near-IR Detection of Occult Tissue. Abstracts, 40th Central Regional Meeting of the American Chemical Society, Columbus, OH, United States, June 10-14 (2008), CRM-306.
- 84 Ronald Xu, Jeff Xu, Joseph Ewing, Bei Wang, **Duxin Sun**, Stephen Povoski, Edward Martin Jr. Development of indocyanine green encapsulated microbubbles for dynamic imaging of

- breast cancer. DOD Breast cancer program Era of Hope meeting, Baltimore, Maryland, June, 2008
- 85 Yanke Yu and **Duxin Sun**. Withaferin A that inhibits Hsp90 by disrupting Hsp90-Cdc37 interaction against pancreatic cancer cells. AAPS Annual Meeting, Atlanta, GA, November 2008
- 86 Peng Zou, Jeff Xu, Anna Wang, Stephen P. Povoski, Edward W Martin, Jr, Ronald Xu, and **Duxin Sun**. Near-Infrared Fluorescent Labeled Anti-TAG-72 Antibodies for Tumor Imaging in Colorectal Cancer Xenograft Mice. AAPS Annual Meeting, Atlanta, GA, November 2008
- 87 Jeff Xu, Peng Zou, **Duxin Sun**, Edward Martin, Stephen Povoski, Ronald Xu. Multimodal, intraoperative cancer imaging with microbubbles and antibody-fluorophore conjugates. BMES Annual Fall Meeting, St Louis, 2008
- 88 Chen, Wenlan; Zhang, Guisheng; Zhu, Lizhi; Fang, Lanyan; Cao, Xianhua; Kedenburg, James; Shen, Jie; **Sun, Duxin**; Wang, Peng George. Uncommon sugars and their conjugates to natural products. ACS Symposium Series (2007), 960(Frontiers in Modern Carbohydrate Chemistry), 15-33.
- 89 Tao Zhang, Adel Hamza, Xianhua Cao, Bing Wang, Shuwen Yu, Chang-Guo Zhan, **Duxin Sun**. A Novel Hsp90 inhibitor disrupts Hsp90-Cdc37 complex for pancreatic cancer therapy. AAPS Annual Meeting, San Diego, CA, November 2007
- 90 Lanyan Fang, Yanqiang Zhong, Ming Yang, Kenneth K. Chan, Edward T Martin Jr, and **Duxin Sun**. *In Vivo* Fluorescent Imaging for Antibody-Directed Enzyme Prodrug Therapy (ADEPT) and Tumor Detection Using HuCC49ΔCH2-β-galactosidase Conjugate. AAPS Annual Meeting, San Diego, CA, November 2007
- 91 Xianhua Cao, Mark Bloomston, Guang Jia, Wendy L. Frankel, Tao Zhang, Nathan Hall, Hao Cheng, Michael Knopp, and **Duxin Sun**. Simultaneously Targeting Hypoxic Cancer Cells by HSP90 Inhibitor and Glycolysis Inhibitor in Pancreatic Cancer Therapy. AAPS Annual Meeting, San Diego, CA, November 2007
- 92 Xianhua Cao, Bing Wang, Guang Jia, Ming Yang, Michael V. Knopp and **Duxin Sun**. Non-invasive tumor MRI imaging and synergistic anti-tumor effect of HSP90 inhibitor and glycolysis inhibitor in RIP1-Tag2 transgenic pancreatic tumor model. AAPS Annual Meeting, San Diego, CA, November 2007
- 93 Lanyan Fang, **Duxin Sun**. Predictive physiological based pharmacokinetic (PBPK) analysis for antibody directed enzyme prodrug therapy (ADEPT). AAPS Annual Meeting, San Diego, CA, November 2007
- 94 Seth Gibbs, Changgong Liu, Mark Bloomston, Lanyan Fang, Peng George Wang, Carlo Croce, **Duxin Sun**. miR-221 and miR-222 regulation of Kit protein provides a novel mechanism for drug resistance in leukemia. AAPS Annual Meeting, San Diego, CA, November 2007
- 95 Guang Jia, Xianhua Cao, Peter Wassenaar, Ming Yang, Regina M Koch, Steffen Sammet, Hao Cheng, Tao Zhang, Petra Schmalbrock, **Duxin Sun**, Michael V Knopp. MR Imaging of Pancreatic Cancer in a Mouse Model using a Clinical 3T Scanner. ISMRM MR of Cancer Study Group Workshop: Frontiers in Metabolic, Molecular and Clinical Imaging. Oct 2006, Pocono Manor, PA, USA
- 96 Shen, Jie; Cao, Xianhua; **Sun, Duxin**; Wang, Peng George. Synthesis of geldanamycin (GA)-galactose ADEPT prodrug. 232nd ACS National Meeting, San Francisco, CA, United States, Sept. 10-14, 2006 (2006)
- 97 Abdul Rana, Xianhua Cao, **Duxin Sun**, Ronald Xu. Monitoring Oxygen Dynamics During Pressure Induced Ischemia on Cancer Xenograft Models. 31st International Conference on Infrared and Millimeter Waves and 14th International Conference on Terahertz Electronics. September 18-22, 2006, Shanghai ,China

- 98 Bo Qiang, Xuehai Zhu, Xianhua Cao, Guanglong He, **Duxin Sun**, Ronald Xu. Development of a Multi-modal Sensor for in vivo Monitoring of Tumor Oxygen Dynamics. 31st International Conference on Infrared and Millimeter Waves and 14th International Conference on Terahertz Electronics. September 18-22, 2006, Shanghai, China
- 99 L. Fang, R. Battisti, H. Cheng, E. Martin, K. Chan, P. Wang, **D. Sun**. Enzyme Specific Activation of Geldanamycin Prodrugs Using Humanized HuCC49deltaCH2-beta-galactosidase Conjugates. AAPS Annual Meeting, San Antonio, TX, October 2006
- 100 L. Fang, N. Holford, X. Cao, G. Hinkle, J. Xiao, S. Gibbs, J. Dalton, K. Chan, E. Martin, D. Sun. Application of Bayesian Estimation to forecast time of Surgical Exploration using RadioImmunoGuided Surgery (RIGS). AAPS Annual Meeting, San Antonio, TX, October 2006
- 101 Xianhua Cao, Seth Gibbs, Lanyan Fang, Heather A. Miller, Christopher P. Landowski, Ho-Chul Shin, Hans Lennernas, Yanqing Zhong, Gordon L. Amidon, Lawrence X. Yu, and **Duxin Sun**. Why Is It Challenging To Predict Intestinal Drug Absorption And Oral Bioavailability In Human Using Rat Model. AAPS Annual Meeting, San Antonio, TX, October 2006.
- 102 Xianhua Cao, Lanyan Fang, Seth Gibbs, Ying Huang, Zunyan Dai, Ping Wen, Xincheng Zheng, Wolfgang Sadee, and **Duxin Sun**. Glucose uptake inhibitor sensitizes cancer cells to daunorubicin and overcomes drug resistance in hypoxia. Gibbs S, AAPS Annual Meeting, San Antonio, TX, October 2006.
- 103 Seth Gibbs, Lawrence X Yu, and **Duxin Sun**. In vitro cell systems to evaluate and predict drug absorption from the pulmonary system. AAPS Annual Meeting, San Antonio, TX, October 2006.
- 104 Seth Gibbs, Jie Shen, Dongning Lu, Lanyan Fang, Guisheng Zhang, Peng G. Wang, **Duxin Sun**. Nitric oxide helps overcome p-gp-associated daunorubicin resistance. AAPS Annual Meeting, San Antonio, TX, October 2006.
- 105 Fang L Martin Jr. ED, **Sun D**. Population pharmacokinetics of HuCC49∆CH2, a novel monoclonal antibody for tumor targeting. AAPS Annual Meeting, Nashville, TN, November 2005.
- 106 Lanyan Fang, Guisheng Zhang, Xincheng Zheng, Jim J, Xiao, Peng George Wang, and Duxin Sun. Discovery of a daunorubicin analogue that exhibits potent antitumor activity and overcomes MDR-mediated drug resistance. AAPS Annual Meeting, Nashville, TN, November 2005.
- 107 Xianhua Cao, Lawrence X. Yu, Catalin Barbaciru, Christopher P. Landowski, Ho-Chul Shin, Gordon L. Amidon, and **Duxin Sun**. Permeability Dominates In Vivo Intestinal Absorption of P-gp Substrate with High Solubility and High Permeability. AAPS Annual Meeting, Nashville, TN, November 2005.
- 108 Xianhua Cao, Ping Wen, Zunyan Dai, Ying Huang, Edward w. Martin Jr, Peng George Wang, Wolfgang Sadee, and **Duxin Sun**. Expression of GLUT1 in tumors promotes cancer cell survival. AACR Annual meeting, Anaheim, CA, April 2005
- 109 Jim J Xiao, Xianhua Cao, Jing Fang, George H Hinkle, Sara N Horst, Ergun Kocak, Donn Young, Doreen M Agnese, **Duxin Sun**, and Edward W Martin Jr. Pharmacokinetics and clinical evaluation of 125-I Radiolabeled Humanized CC49 Monoclonal Antibody (HuCC49DeltaCH2) in Recurrent and Metastatic Colorectal Cancer Patients. AACR Annual meeting, Anaheim, CA, April 2005
- 110 Cheng H, Cao, X, Xian M, Fang L, Cai TB, Tunac JB, **Sun D**, Wang GP. Synthesis and enzyme-specific activation of carbohydrate-geldanamycin conjugates with potent anticancer activity. AACR Annual meeting, Anaheim, CA, April 2005
- 111 **Sun D**, Badawy S, Nyamweya N, Heran C, Moench P, Hussain M, Patel J, Schuster AE, Franchini M, Zhao F, Gray D, Wall D. pH-Dependent Absorption of a Factor Xa Inhibitor in

- Different Formulations. Pharmaceutical Research Institute Scientific Symposium, Wallingford, CT. May 2003.
- 112 **Sun D**, Wu Y, Heran C, Stetsko PI, Zhao F, Hollenbaugh F, Wall D. Establishment of a Canine Absorption Model and Application to Optimize CRF Antagonist Formulations. Pharmaceutical Research Institute Scientific Symposium, Wallingford, CT. May 2003.
- 113 Shin HC, Landowski CP, **Sun D** and Amidon GL. Molecular cloning and substrate recognition of the sodium-dependent nucleoside transporter hCNT2 from human intestine. Molecular Biopharmaceutics: A new era in drug absorption transport and delivery. 2nd International Congress on Drug Absorption Transport and Delivery, January 22-24, 2003. Hawaii, USA.
- 114 Foster D, Landowski CP, Streetman D, **Sun D**, Amidon GL, and Welage LS. Alterations in the expression of key intestinal transporters and metabolic enzymes in thermally injured rats. 2003 Spring Practice and Research Forum: 2003 Updates in Therapeutics: The Pharmacotherapy Preparatory Course. American College of Clinical Pharmacy. April 27-30, 2003. Palm Springs, CA, USA.
- 115 Landowski, CP, Neudeck BL, Foster D, Gonzales JP, **Sun D**, and Amidon GL, and Welage LS. Alterations in cephalexin transport and PEPT1 expression following thermal injury in rats. Molecular Biopharmaceutics: A new era in drug absorption transport and delivery. 2nd International Congress on Drug Absorption Transport and Delivery, January 22-24, 2003. Hawaii, USA.
- 116 Landowski CP, **Sun D**, Menon SS, Ramachandran C, Barnet JL, Foster D, Welage LS, and Amidon GL. Gene expression in human intestine and correlation with oral valacyclovir pharmacokinetic parameters. *AAPS Annual Meeting and Exposition*, Nov 10-14, Toronto, Canada.
- 117 **Sun D**, Fleisher D, Lee KD, and Amidon GL. Regional and diet dependent drug intestinal absorption and gene expression by GeneChip analysis in rat. *The 29th International Symposium on Controlled Release of Bioactive Materials*. July 20-25, 2002. Seoul, Korea.
- 118 **Sun D**, Landowski CP, Welage LS, Neudeck BL, Foster D, Hsu C-P, Higaki K, Fleisher D, and Amidon, GL. Implication of intestinal transporter expression and in vitro/in vivo intestinal drug permeability correlation. *The 28th International Symposium on Controlled Release of Bioactive Materials.* June 24-27, 2001. San Diego, CA.
- 119 **Sun D**, Landowski, CP, Chu X, and Amidon GL. Drug uptake and hPepT1 localization using hPepT1-GFP fusion protein. *2000 AAPS annual meeting and Exposition*. Oct. 2000. Indianapolis, IN.
- 120 **Sun D**, Funk CD. Cloning of a human "epidermal-type" 12-lipoxygenase related gene. *The 5th International Conference in Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Related Diseases*. La Jalla, CA, September 17-20, 1997.
- 121 **Sun D**, Funk CD. The potential role of leukocyte-type lipoxygenase in atherogenesis. *First Annual Vascular Biology Retreat: Basic Science encounters Clinical Application*. March 21, 1997. Chestnut Hill, PA. p40.
- 122 **Sun D**, Funk CD. Disruption of 12/15-lipoxygenase expressions in peritoneal macrophage: Enhanced utilization of the 5-lipoxygenase pathway and diminished oxidation of LDL. *Thirteenth Annual Student Symposium of University of Pennsylvania School of Medicine, Pharmacological Sciences.* October 1, 1996. Philadelphia, PA. p14.
- 123 **Sun D**, Funk CD. Disruption of the leukocyte-type 12/15-lipoxygenase in mice. *Frontiers in Bioactive Lipids'96. XVI Washington international spring symposium.* May 1996. Washington D.C.
- 124 Funk CD, **Sun D**, Johnson EN, Cheng XS. Arachidonate lipoxygenases molecular and gene knockout studies. *FASEB J* Apr. 30, 1996, P120.
- 125 Sun D, Rui YC. PAF and cerebrovascular endothelium injuries. The First conference of

- basic and clinical research of cerebrovascular disorders. September 1993. Shanghai, China. P178
- 126 **Sun D**, Rui YC. The action of PAF on the cerebrovascular system. *The 8th international conference on prostaglandins and related compounds.* Montreal, Canada. July 1992, pp49.
- 127 **Sun D**, Rui YC. The specific binding sites of PAF on the cerebromicrovascular endothelial cells. *The 4th symposium of Chinese cardiovascular pharmacology*. August 1991. Shenyang, China. P253.
- 128 **Sun D.** The development of a PAF receptor antagonist and its pharmacological studies. *The First international conference of new drug development.* Oct. 1990. Beijing, China.

Invited Presentations

- 1 Sun D. Perspectives of Industry. Great Lakes Pharmacy Conference, Ann Arbor, Ml. March 25, 2023.
- 2 Sun D. Why Most AntiCancer NanoMedicines Failed to Show Superior Clinical Efficacy and How to Improve It to Achieve Long-Term Tumor Remission? The Targeted Delivery Interest Group, NIH, online. February 17, 2023.
- 3 Sun D. Direct measurement of drug dissolution and bile salts in human GI tract for immediate- and modified-release drug products. Chicagoland Pharmaceutical Discussion, AAPS. Chicago, II. November 10, 2022.
- 4 Sun D. Why 90% Drug Development Fails and how to improve it? WenDaoShenNong Innovative Research Forum. Drug Clinical Trial Center, Peking University Third Hospital, online. November 23, 2022.
- 5 Sun D. Improve Clinical Success of Anticancer NanoMedicine by Correcting Flawed Design. Nanoscience Approaches to Cancer, Brooklyn College Cancer Center, online. October 7, 2022.
- 6 Sun D. Why 90% of clinical drug development fails and how to improve it? Gulf Coast Consortia Innovative Drug Discovery and Development Conference, Houston, TX. May 3, 2022.
- 7 Sun D. What went wrong with anticancer nanomedicine design and how to make it right? The 8th International Symposium in Quantitative Pharmacology, online. December 6, 2021.
- 8 Sun D. Overlooked Biopharmaceutics of Nanomedicines/Nanovaccines Impacts Clinical Dose/Efficacy/Safety. 5th FDA/PQRI Conference on Advancing Product Quality: Advancing Quality & Technology of Future Pharmaceuticals, online. December 1, 2021.
- 9 Sun D. What went wrong with anticancer nanomedicine design and how to make it right. China Agriculture University, online. March 5, 2021.
- 10 Sun D. Critical element PK PD, and what should physicians glean from PK PD clinically? Hematologic Malignancies Clinical Research Meeting, University of Michigan, online. October 20, 2020.
- 11 Sun D. Visualize cancer cell heterogeneity and their response to therapy through cancer stem cell hierarchy. Hope College, Holland, MI. October 26, 2018.
- 12 Sun D. From innovative medicine to drug development: new frontiers and challenges panel. Michigan China Biomedical Forum 2018 in Ypsilanti, MI. August 13, 2018.
- 13 Sun D. Why most nanomedicines fail to improve efficacy, but only alter toxicity. National Taiwan University School of Pharmacy Research Day and International Conference in Taipei, Taiwan. June 2, 2018.
- 14 Sun D. Real-time visualization of cancer stem cell plasticity, asymmetrical division, differentiation, and response to treatment to generate cancer cell heterogeneity. Cancer Center Grand Rounds at NCRC, University of Michigan, Ann Arbor, MI. March 19, 2018.

- 15 Sun D. Measurement of gastrointestinal luminal and plasma drug concentrations. Oral Drug Delivery 2018 *in vivo* Predictive Dissolution, formulation Predictive Dissolution conference in Lake Tahoe, NV. March 5, 2018.
- 16 Sun D. Development of GI sampling capsule. Oral Drug Delivery 2018 *in vivo* Predictive Dissolution, formulation Predictive Dissolution conference in Lake Tahoe, NV. March 5, 2018.
- 17 Sun D. Nanomedicine eliminates cancer stem cells. 2017 Chinese Pharmaceutical Conference in Shanghai, China. October 29, 2017.
- 18 Sun D. Broccoli as a functional food to eliminate cancer stem cells. 2017 Green Life Sciences Symposium, at the University of Michigan Ann Arbor, Michigan. October 21, 2017.
- 19 Sun D. Strategies for assessing equivalence of complex injectable products. Development of Generics & 505(b)(2): Opportunities, Challenges and Solutions symposium in Somerset, NJ. September 21, 2017.
- 20 Sun D. Direct measurement of in vivo dissolution of IR and MR drug products in human GI tract. AAPS Workshop on In Vivo Predictive Drug Dissolution/Simulation in Rockville, MD. September 11, 2017.
- 21 Sun D. Direct measurement of drug dissolution in human GI tract *in vivo* using human intubation study for modified release and immediate release drug products. 2016 AAPS meeting in Denver, CO. November 17, 2016.
- 22 Sun D. Modeling dynamic gastrointestinal fluid transit as a basis for dissolution and absorption. 2016 AAPS meeting in Denver, CO. November 16, 2016.
- 23 Sun D. Drug discovery targeting PRC2 to alter epigenetics for therapeutics of triple-negative breast cancer. International Conference on Drug Discovery and Translational Medicines, Zhengzhou University. November 4-6, 2016.
- 24 Sun D. Drug discovery targeting PRC2 to alter epigenetics for therapeutics of triple-negative breast cancer. 2016 China-US Translational Medicine Forum—University of Michigan Chapter, Guangxi Medical University, Nanning, China. October 29-November 1, 2016.
- 25 Sun D. Drug discovery target PRC2 to alter epigenetics for therapeutics of triple-negative breast cancer. Qinghua University, Beijing, China. October 21, 2016.
- 26 Sun D. Albumin paclitaxel nanoparticles inhibit cancer stem cells, enhance drug tissue penetration and cellular uptake, and alter elimination mechanism. 2016 International Forum on Leading Edge Technologies on Crystallization Engineering and Pharmaceutics Development, Tianjin, China. October 14-16, 2016.
- 27 Sun D. Potential new method to improve BE of modified release drug products supported by *in vivo* drug dissolution and metabolism studies. Food and Drug Administration, Washington, DC. May 20, 2016.
- 28 Sun D. Natural products and nanomedicine to eliminate cancer stem cells. Department of Pharmaceutical Sciences, Wayne State University, Detroit, MI. March 16, 2016.
- 29 Sun D. Natural products and nanomedicine to eliminate cancer stem cells for cancer therapy. Fudan University, Shanghai, China. October 21, 2015.
- 30 Sun D. Nanomedicine to eliminate cancer stem cells. Tianjin University, Tianjin, China. October 15, 2015.
- 31 Sun D. Natural products to eliminate cancer stem cells for cancer therapy. Qingdao Agricultural University, Qingdao, China. October 12, 2015.
- 32 Sun D. Elimination of cancer stem cells for cancer therapy. Zhejiang University, Hangzhou, China. October 8, 2015.
- 33 Sun D. Nanomedicine and natural products for elimination of cancer stem cells. Second Annual Meeting of the International Ovarian Cancer Consortium, University of Oklahoma Health Sciences Center, Oklahoma City, OK. August 18, 2015.
- 34 Sun D. In vivo drug dissolution in human GI tract for controlled release and locally acting drug

- products. Food and Drug Administration, Washington, DC, May 20, 2015.
- 35 Sun D. Therapeutics of cancer stem cells using natural products. School of Medicine, University of Louisville, Louisville, KY. April 14, 2015.
- 36 Sun D. Direct Measurement of *In Vivo* Drug Dissolution in Human GI Tract. Department of Pharmaceutical Sciences, College of Pharmacy, University of Michigan, Ann Arbor, MI. August 5, 2014.
- 37 Sun D. Direct Measurement and Computational Modeling of *In Vivo* Drug Dissolution in Human GI tract for Accurate BA/BE Study and Prediction of Generic Drugs. Food and Drug Administration, Washington DC, May 16, 2014.
- 38 Sun D. Nano Satellite for Tumor Imaging and Photothermal Cancer Therapy. Tianjin Medical University, Tianjing, China. May 8, 2014
- 39 Sun D. Inhibition of Cancer Stem Cell Targets by Natural Products for Anticancer Therapy. Guangxi Medical University, Nanning, China. April 30, 2014.
- 40 Sun D. Natural products to inhibit cancer stem cells for cancer therapy. Jinan University. Guangzhou, China. April 28, 2014.
- 41 Sun D. Inhibition of Cancer Stem Cell Targets by Natural Products for Anticancer Therapy. Chinese Pharmaceutical University, Nanjing, China. April 23, 2014.
- 42 Sun D. Small Molecules to Inhibit Cancer Stem Cell Targets and Protein-Protein Interactions for Cancer Therapy. University of Florida, Gainesville, FL. March 25, 2014
- 43 Sun D. Small Molecules to Inhibit Cancer Stem Cell Targets and Protein-Protein Interactions for Cancer Therapy. University of Iowa, Iowa City, Iowa. Feb 27, 2014
- 44 Sun D. Novel cancer stem cell target and therapeutics for Herceptin-resistant Her2+ breast cancer. Translational Oncology Program, University of Michigan, January 30, 2014
- 45 Sun D Disruption of Protein-Protein Interactions in Hsp90 Complex for Cancer Therapy, Center for the Discovery of New Medicines, University of Michigan, September 13, 2013.
- 46 Sun D Antibody-Enzyme Conjugate for Prodrug Activation, AAPS Annual Meeting, October 14-18, 2012.
- 47 Sun D. Therapeutic of Cancer Stem Cells Using Natural Products, University of Pittsburgh, Pittsburgh, PA. January 21-22, 2013
- 48 Sun D. Nanotheranostics for cancer imaging and targeted drug delivery. 47th Annual Arden Conference, March 11-14, 2012, West point, NY
- 49 Sun D. Targeting breast cancer stem cells. 2011 AAPS annual meeting, Washington DC, Oct 2011.
- 50 Sun D. Nature products for therapeutics of cancer stem cells. 2011 International Symposium on Agricultural Biotechnology: Herbal Medicines for Immunity and Cancer. 10/20/2011, Taipei, China
- 51 Sun D. PET and Fluorescent Imaging to Study ADME of Tumor Targeting Antibody. AAPS webinar. August 2011.
- 52 Sun D. Therapeutics of cancer stem cells using natural products. International Meeting on Natural Products and Cancer Targets: Progress and Promise. August 24-25th , 2011; Zhengzhou, China
- 53 Sun D. TCM and cancer stem cells. The Consortium for Globalization of Chinese Medicine (CGCM), Shanghai, China. August 26-28, 2011.
- 54 Sun. D. Drug discovery and natural products for therapeutics of cancer and cancer stem cells. Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences. August, 2011
- 55 Sun D. Biological factors influencing bioavailability and bioequivalence (BA/BE). International Workshop on Bioavailability and Bioequivalence, June 20-21, 2011. Suzhou, China.
- 56 Sun D. Hsp90 inhibitors for therapeutics of cancer and cancer stem cells. Guangzhou

- Institutes of Biomedical and Health, Chinese Academy of Sciences, Guangzhou, China, June 2011
- 57 Sun D. PET and fluorescent imaging to study ADME of tumor targeting antibody. AAPS Annual Meeting, New Orleans, LA, November 2010
- 58 Sun D. Nanotheranostics for targeted drug delivery and tumor imaging. AAPS Annual Meeting, New Orleans, LA, November 2010
- 59 Sun D. Lead optimization and drug absorption prediction. Roche R&D Center (China) Ltd. June 17, 2010, Shanghai, China.
- 60 Sun D. Novel Hsp90 Inhibitors That Disrupt Protein-Protein Interaction for Cancer Therapy. Roche R&D Center (China) Ltd. June 17, 2010, Shanghai, China.
- 61 Sun D. New agents for therapeutics of cancer stem cells and nanotheranostics for tumor imaging and targeted drug delivery. Shanghai Pharmaceutical Association, June 9, 2010, Shanghai, China.
- 62 Sun D. Biological factors that influence oral bioavailability. The second Asian Arden Conference and Annual Meeting of Pharmaceutics Committee of Chinese Pharmaceutical Association, June 11-13, Shenyang, China.
- 63 Sun D. Lead optimization in drug discovery and development. The First International Research and Development of Innovative Drugs and Generic Drugs and the Assessment Process Forum, June 20-23, 2010, Guangdong, China.
- 64 Sun D. Hsp90 inhibitors for cancer and cancer stem cells, June 6, 2010, College of Pharmacy, Shandong University, Jinnan, China.
- 65 Sun D. Hsp90 inhibitors for cancer and cancer stem cells, June 12, 2010, College of Pharmacy, Nankai University, Tianjin, China.
- 66 Sun D. Hsp90 Inhibitors for Therapeutics of Cancers and Cancer Stem Cells, Jan 21, 2010, College of Pharmacy, University of Wisconsin, Madison, WA.
- 67 Sun D. pH-dependent solubility and absorption. 45th Annual Arden Conference, Feb 1-5, 2010, West point, NY
- 68 Sun D. Prediction of human hepatic metabolism and clearance from in vitro and in vivo animal experiments. AAPS annual meeting, Nov 8-12, 2009, Los Angeles, CA
- 69 Sun D. Targeted therapy and chemoprevention for cancer stem cells. AAPS annual meeting, Nov 8-12, 2009, Los Angeles, CA
- 70 Sun D. Predict Oral Bioavailability in Human: Forming an Interface between Preclinical Data and Clinical Outcome. AAPS PPB workshop, Baltimore, MD, May 2009
- 71 Sun D. Antibody and FDG for PET Tumor Imaging and Targeted Drug Delivery, AAPS Annual Meeting, Atlanta, GA, November 2008
- 72 Sun D. P-gp And microRNA in Drug Resistance AAPS Annual Meeting, Atlanta, GA, November 2008
- 73 Sun D. An Integrated System for Tumor Detection and Targeted Drug Therapy Using ADEPT: Preclinical, Clinical Testing and Pharmacokinetic Modeling. IBC's Antibody Engineering. San Diego, CA, December 7 -11, 2008,
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