Jinsong Zhang, PhD

Associate Professor
Department of Pharmacology and Physiology
School of Medicine
Saint Louis University
Member, The Alvin J. Siteman Cancer Center,
Barnes-Jewish Hospital &
Washington University in St. Louis

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EDUCATION

Ph.D. Biochemistry and Molecular Biophysics, University of Pennsylvania, Philadelphia, 1999
Advisor: Mitchell Lazar, MD, PhD, Willard and Rhoda Ware Professor in Diabetes and Metabolic Diseases

M.S. Biochemistry, Shanghai Institute of Biochemistry, Chinese Academy of Sciences, 1991
Advisor: Prof. Wang-Yi Liu

B.S. Biochemistry, Nanjing University, 1988

APPOINTMENTS

2014– Saint Louis University
Associate Professor, Department of Pharmacology and Physiology, 2014–
Member, The Alvin J. Siteman Cancer Center,
Barnes-Jewish Hospital and Washington University School of Medicine in St. Louis, 2018 –

2005–13 University of Cincinnati
Assistant Professor, Department of Cell Biology, Neuroscience and Anatomy, 2005–2008
Department of Cancer and Cell Biology, 2009–

1999–05 The Rockefeller University
Postdoctoral Researcher, Laboratory of Biochemistry and Molecular Biology
Mentor: Robert G. Roeder, PhD, Arnold and Mabel Beckman Professor

1991–94 Shanghai Institute of Cell Biology, Chinese Academy of Sciences
Assistant Investigator, Laboratory of Molecular Immunology (Prof. Yeh Ming)

RESEARCH INTERESTS

– Development of targeted therapeutics for cancer and AML

– Transcriptional, signaling, epigenetic and structural mechanisms in cancer

– Bioinformatics and high-throughput sequencing techniques

CERTIFICATES

Machine Learning & Artificial Intelligence
University of Washington

03/2017 Machine learning 4-course specialization: Machine Learning Foundations: A Case Study Approach, Machine Learning: Regression, Machine Learning: Classification, Machine Learning: Clustering & Retrieval, Certificate *52DHDQH5WMHA*

Deeplearing.ai

04/2018 Deep learning 5-course specialization: Neural Networks and Deep Learning, Convolutional Neural Networks, Sequence Models, Structuring Machine Learning Projects, Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Certificate *WM3RB7PRE8YK*

The Johns Hopkins University

08/2016 Practical Machine Learning Certificate *WK8V77S6E6FZ*

C++, R, Python, Bioconductor, Bioinformatics

The Johns Hopkins University

05/2017 Bioconductor for Genomic Data Science, Certificate *YBJNHF3AHXF9*

09/2016 Python for Genomic Data Science, Certificate *6PHJL78RUHQK*

08/2016 R Programming, Certificate *HU8SNQBC3WT7*

07/2016 The Data Scientist's Toolbox, Certificate *F6HDMFU69YRR*

08/2016 Exploratory Data Analysis, Certificate *UCTD4LCELDKX*

08/2016 Statistical Inference, Certificate *NKPTD929M4XA*

08/2016 Regression Models, Certificate *QSY7Y4AMQKEZ*

09/2016 Getting and Cleaning Data, Certificate *94V74M3L3QQB*

09/2016 Developing Data Products, Certificate *FK3BZJAP9XES*

09/2016 Reproducible Research, Certificate *T94HELZS95Q9*

09/2016 Python for Genomic Data Science, Certificate *6PHJL78RUHQK*

University of California, San Diego

10/2016 Finding Hidden Messages in DNA (Bioinformatics I) (with Honors), Certificate *5WGAZ7GQ37WT*

11/2016 Genome Sequencing (Bioinformatics II) (with Honors), Certificate *29BM838LL8P7*

University of California, Santa Cruz

11/2016 C++ For C Programmers, Certificate *476J9TPDCUGD*

PUBLICATIONS

	Citations	h-index	110-index
All	5123	29	42
Since 2017	1553	22	36

Featured Research Articles

2020 Steinauer N, Guo C, **Zhang J**, The transcriptional corepressor CBFA2T3 inhibits all-trans-retinoic acid-induced myeloid gene expression and differentiation in acute myeloid

leukemia, **J Biol Chem** 295:8887-8900, https://doi.org/10.1074/jbc.RA120.013042

2019 Steinauer N, Guo C, Huang C, Wong M, Tu Y, Freter C E, **Zhang J**, Myeloid translocation gene CBFA2T3 directs a relapse gene program and determines patient-specific outcomes in AML, **Blood Adv** 3:1379-1393, https://doi.org/10.1182/bloodadvances.2018028514

2015 Guo C, Li Y, Gow C H, Wong M, Zha J, Yan C, Liu H, Wang Y, Burris T P, **Zhang J**, The optimal corepressor function of nuclear receptor corepressor (NCoR) for peroxisome proliferator-activated receptor gamma requires G protein pathway suppressor 2, **Journal of Biological Chemistry** 290:3666-3679, https://doi.org/10.1074/jbc.M114.598797

2011 Hu Q, Guo C, Li Y, Aronow B J, **Zhang J**, LMO7 mediates cell-specific activation of the Rho-myocardin-related transcription factor-serum response factor pathway and plays an important role in breast cancer cell migration, **Mol Cell Biol** 31:3223-40, https://doi.org/10.1128/MCB.01365-10

2009 Guo C, Hu Q, Yan C, **Zhang J**, Multivalent binding of the ETO corepressor to E proteins facilitates dual repression controls targeting chromatin and the basal transcription machinery, **Mol Cell Biol** 29:2644-57, https://doi.org/10.1128/MCB.00073-09

2004 **Zhang J**, Kalkum M, Yamamura S, Chait B T, Roeder R G, E protein silencing by the leukemogenic AML1-ETO fusion protein, **Science** 305:1286-9, https://doi.org/10.1126/science.1097937

2002 **Zhang J**, Kalkum M, Chait B T, Roeder R G, The N-CoR-HDAC3 nuclear receptor corepressor complex inhibits the JNK pathway through the integral subunit GPS2, **Molecular Cell** 9:611-623, https://doi.org/10.1016/S1097-2765(02)00468-9

1998 Gelmetti V, **Zhang J** (co-first author), Fanelli M, Minucci S, Pelicci P G, Lazar M A, Aberrant recruitment of the nuclear receptor corepressor-histone deacetylase complex by the acute myeloid leukemia fusion partner ETO, **Mol Cell Biol** 18:7185-91, https://doi.org/10.1128/MCB.18.12.7185

Complete List of Research Articles

2022 Braden K, Campolo M, Li Y, Chen Z, Doyle T M, Giancotti L A, Esposito E, **Zhang J**, Cuzzocrea S, Arnatt C K, Salvemini D, Activation of GPR183 by 7alpha,25-Dihydroxycholesterol Induces Behavioral Hypersensitivity through Mitogen-Activated Protein Kinase and Nuclear Factor-kappaB, **The Journal of pharmacology and experimental therapeutics** 383:172 – 181-172 – 181, https://doi.org/10.1124/jpet.122.001283

2022 Griffett K, Hayes M, Bedia-Diaz G, Appourchaux K, Sanders R, Boeckman M P, Koelblen T, **Zhang J**, Schulman I G, Elgendy B, Burris T P, Antihyperlipidemic Activity of Gut-Restricted LXR Inverse Agonists, **ACS Chem Biol** 17:1143-1154, https://doi.org/10.1021/acschembio.2c00057

2022 Sur Subhayan, Steele Robert, Ko Ben C B, **Zhang J**, Ray Ratna B, Long noncoding RNA ELDR promotes cell cycle progression in normal oral keratinocytes through induction of a CTCFFOXM1-AURKA signaling axis, **Journal of Biological Chemistry** 298:101895, https://doi.org/10.1016/j.jbc.2022.101895

2021 Banerjee S, Ghoshal S, Girardet C, DeMars K M, Yang C, Niehoff M L, Nguyen A D, Jayanth P, Hoelscher B A, Xu F, Banks W A, Hansen K M, **Zhang J**, Candelario-Jalil E, Farr S A, Butler A A, Adropin correlates with aging-related neuropathology in humans and improves cognitive function in aging mice, **NPJ Aging Mech Dis** 7:23,

https://doi.org/10.1038/s41514-021-00076-5

2021 Ghoshal S, Banerjee S, **Zhang J**, Niehoff M L, Farr S A, Butler A A, Adropin transgenesis improves recognition memory in diet-induced obese LDLR-deficient C57BL/6J mice, **Peptides** 146:170678, https://doi.org/10.1016/j.peptides.2021.170678

2021 Khatun M, **Zhang J**, Ray R, Ray R B, Hepatitis C virus evades interferon signaling by suppressing long noncoding RNA linc-pint involving C/EBP-b, **Journal of Virology** 95:e00952-21, https://doi.org/10.1128/JVI.00952-21

2021 Li J, Guo C, Rood C, **Zhang J**, A C terminus–dependent conformational change is required for HDAC3 activation by nuclear receptor corepressors, **Journal of Biological Chemistry** 279:101192, https://doi.org/10.1016/j.jbc.2021.101192

2021 Mukherjee S, Chakraborty M, Ulmasov B, McCommis K, **Zhang J**, Carpenter D, Msengi E N, Haubner J, Guo C, Pike D P, Ghoshal S, Ford D A, Neuschwander-Tetri B A, Chakraborty A, Pleiotropic actions of IP6K1 mediate hepatic metabolic dysfunction to promote nonalcoholic fatty liver disease and steatohepatitis, **Mol Metab** 54:101364, https://doi.org/10.1016/j.molmet.2021.101364

2021 Steinauer N, Zhang K, Guo C, **Zhang J**, Computational Modeling of Gene-Specific Transcriptional Repression, Activation and Chromatin Interactions in Leukemogenesis by LASSO-Regularized Logistic Regression, **IEEE/ACM Trans Comput Biol Bioinform** 18:2109-2122, https://doi.org/10.1109/TCBB.2021.3078128

2020 Banerjee S, Ghoshal S, Stevens J R, McCommis K S, Gao S, Castro-Sepulveda M, Mizgier M L, Girardet C, Ganesh Kumar K, Galgani J E, Niehoff M L, Farr S A, **Zhang J**, Butler A A, Hepatocyte expression of the micropeptide adropin regulates the liver fasting response and is enhanced by caloric restriction, **Journal of Biological Chemistry** 295:13753-13768, https://doi.org/10.1074/jbc.RA120.014381

2020 Griffin P, Sheehan P W, Dimitry J M, Guo C, Kanan M F, Lee J, **Zhang J**, Musiek E S, Rev-erb alpha mediates complement expression and diurnal regulation of microglial synaptic phagocytosis, **eLife** 9:1-17, https://doi.org/10.7554/ELIFE.58765

2020 Guo C, Li J, Steinauer N, Wong M, Wu B, Dickson A, Kalkum M, **Zhang J**, Histone deacetylase 3 preferentially binds and collaborates with the transcription factor RUNX1 to repress AML1-ETO-dependent transcription in t(8;21) AML, **J Biol Chem** 295:4212-4223, https://doi.org/10.1074/jbc.RA119.010707

2020 Lananna B V, McKee C A, King M W, Del-Aguila J L, Dimitry J M, Farias F H G, Nadarajah C J, Xiong D D, Guo C, Cammack A J, Elias J A, **Zhang J**, Cruchaga C, Musiek E S, Chi3l1/YKL-40 is controlled by the astrocyte circadian clock and regulates neuroinflammation and Alzheimer's disease pathogenesis, **Science Translational Medicine** 12:eaax3519, https://doi.org/10.1126/scitranslmed.aax3519

2020 Steinauer N, Guo C, **Zhang J**, The transcriptional corepressor CBFA2T3 inhibits all-trans-retinoic acid-induced myeloid gene expression and differentiation in acute myeloid leukemia, **J Biol Chem** 295:8887-8900, https://doi.org/10.1074/jbc.RA120.013042

2020 Yosten G L, Harada C M, Haddock C, Giancotti L A, Kolar G R, Patel R, Guo C, Chen Z, **Zhang J**, Doyle T M, Dickenson A H, Samson W K, Salvemini D, GPR160 de-orphanization reveals critical roles in neuropathic pain in rodents, **J Clin Invest** 130:2587-2592, https://doi.org/10.1172/JCI133270

2019 Butler A A, **Zhang J**, Price C A, Stevens J R, Graham J L, Stanhope K L, King S, Krauss R M,

Bremer A A, Havel P J, Low plasma adropin concentrations increase risks of weight gain and metabolic dysregulation in response to a high-sugar diet in male nonhuman primates, **J Biol Chem** 294:9706-9719, https://doi.org/10.1074/jbc.RA119.007528

2019 Carpenter K J, Valfort A C, Steinauer N, Chatterjee A, Abuirqeba S, Majidi S, Sengupta M, Di Paolo R J, Shornick L P, **Zhang J**, Flaveny C A, LXR-inverse agonism stimulates immune-mediated tumor destruction by enhancing CD8 T-cell activity in triple negative breast cancer, **Sci Rep** 9:19530, https://doi.org/10.1038/s41598-019-56038-1

2019 Griffin P, Dimitry J M, Sheehan P W, Lananna B V, Guo C, Robinette M L, Hayes M E, Cedeño M R, Nadarajah C J, Ezerskiy L A, Colonna M, **Zhang J**, Bauer A Q, Burris T P, Musiek E S, Circadian clock protein Rev-erb alpha regulates neuroinflammation, **Proceedings of the National Academy of Sciences of the United States of America** 116:5102-5107, https://doi.org/10.1073/pnas.1812405116

2019 Roby D A, Ruiz F, Kermath B A, Voorhees J R, Niehoff M, **Zhang J**, Morley J E, Musiek E S, Farr S A, Burris T P, Pharmacological activation of the nuclear receptor REV-ERB reverses cognitive deficits and reduces amyloid-beta burden in a mouse model of Alzheimer's disease, **PLoS One** 14:e0215004, https://doi.org/10.1371/journal.pone.0215004

2019 Steinauer N, Guo C, Huang C, Wong M, Tu Y, Freter C E, **Zhang J**, Myeloid translocation gene CBFA2T3 directs a relapse gene program and determines patient-specific outcomes in AML, **Blood Adv** 3:1379-1393, https://doi.org/10.1182/bloodadvances.2018028514

2018 Cui N, **Zhang J**, Huang H, Lu L, Epigenetic regulator ARID1A and stem cell transcription factor SOX9 in the maintenance of pancreatic ductal cell differentiation state and development of intraductal papillary mucinous neoplasia (IPMN) and pancreatic ductal adenocarcinoma (PDAC), **Translational Cancer Research** 7:S748-S751, https://doi.org/10.21037/tcr.2018.07.25

2018 Ghoshal S, Stevens J R, Billon C, Girardet C, Sitaula S, Leon A S, Rao D C, Skinner J S, Rankinen T, Bouchard C, Nuñez M V, Stanhope K L, Howatt D A, Daugherty A, **Zhang J**, Schuelke M, Weiss E P, Coffey A R, Bennett B J, Sethupathy P, Burris T P, Havel P J, Butler A A, Adropin: An endocrine link between the biological clock and cholesterol homeostasis, **Molecular Metabolism** 8:51-64, https://doi.org/10.1016/j.molmet.2017.12.002

2017 Lin S, Ptasinska A, Chen X, Shrestha M, Assi S A, Chin P S, Imperato M R, Aronow B J, **Zhang J**, Weirauch M T, Bonifer C, Mulloy J C, A FOXO1-induced oncogenic network defines the AML1-ETO preleukemic program, **Blood** 130:1213-1222, https://doi.org/10.1182/blood-2016-11-750976

2017 Sitaula S, **Zhang J**, Ruiz F, Burris T P, Rev-erb regulation of cholesterologenesis, **Biochem Pharmacol** 131:68-77, https://doi.org/10.1016/j.bcp.2017.02.006

2017 Welch R D, Guo C, Sengupta M, Carpenter K J, Stephens N A, Arnett S A, Meyers M J, Sparks L M, Smith S R, **Zhang J**, Burris T P, Flaveny C A, Rev-Erb co-regulates muscle regeneration via tethered interaction with the NF-Y cistrome, **Mol Metab** 6:703-714, https://doi.org/10.1016/j.molmet.2017.05.001

2017 Zhang L, Liu Y, Wang M, Wu Z, Li N, **Zhang J**, Yang C, EZH2-, CHD4-, and IDH-linked epigenetic perturbation and its association with survival in glioma patients, **J Mol Cell Biol** 9:477-488, https://doi.org/10.1093/jmcb/mjx056

2015 Guo C, Li Y, Gow C H, Wong M, Zha J, Yan C, Liu H, Wang Y, Burris T P, **Zhang J**, The optimal corepressor function of nuclear receptor corepressor (NCoR) for peroxisome

proliferator-activated receptor gamma requires G protein pathway suppressor 2, **Journal of Biological Chemistry** 290:3666-3679, https://doi.org/10.1074/jbc.M114.598797

2014 Gow C H, Guo C, Wang D, Hu Q, **Zhang J**, Differential involvement of E2A-corepressor interactions in distinct leukemogenic pathways, **Nucleic Acids Res** 42:137-52, https://doi.org/10.1093/nar/gkt855

2013 Benavides M, Chow-Tsang L F, **Zhang J**, Zhong H, The novel interaction between microspherule protein Msp58 and ubiquitin E3 ligase EDD regulates cell cycle progression, **Biochimica et Biophysica Acta - Molecular Cell Research** 1833:21-32, https://doi.org/10.1016/j.bbamcr.2012.10.007

2013 Chen W Y, **Zhang J**, Geng H, Du Z, Nakadai T, Roeder R G, A TAF4 coactivator function for E proteins that involves enhanced TFIID binding, **Genes and Development** 27:1596-1609, https://doi.org/10.1101/gad.216192.113

2013 Feng Y, Singleton D, Guo C, Gardner A, Pakala S, Kumar R, Jensen E, **Zhang J**, Khan S, DNA homologous recombination factor SFR1 physically and functionally interacts with estrogen receptor alpha, **PLoS One** 8:e68075, https://doi.org/10.1371/journal.pone.0068075

2012 Guo C, Gow C H, Li Y, Gardner A, Khan S, **Zhang J**, Regulated clearance of histone deacetylase 3 protects independent formation of nuclear receptor corepressor complexes, **J Biol Chem** 287:12111-20, https://doi.org/10.1074/jbc.M111.327023

2011 Hu Q, Guo C, Li Y, Aronow B J, **Zhang J**, LMO7 mediates cell-specific activation of the Rho-myocardin-related transcription factor-serum response factor pathway and plays an important role in breast cancer cell migration, **Mol Cell Biol** 31:3223-40, https://doi.org/10.1128/MCB.01365-10

2011 Wang L, Gural A, Sun X J, Zhao X, Perna F, Huang G, Hatlen M A, Vu L, Liu F, Xu H, Asai T, Xu H, Deblasio T, Menendez S, Voza F, Jiang Y, Cole P A, **Zhang J**, Melnick A, Roeder R G, Nimer S D, The leukemogenicity of AML1-ETO is dependent on site-specific lysine acetylation, **Science** 333:765-769, https://doi.org/10.1126/science.1201662

2010 Olshavsky N A, Comstock C E S, Schiewer M J, Augello M A, Hyslop T, Sette C, **Zhang J**, Parysek L M, Knudsen K E, Identification of ASF/SF2 as a critical, allele-specific effector of the cyclin D1b oncogene, **Cancer Research** 70:3975-3984, https://doi.org/10.1158/0008-5472.CAN-09-3468

2009 Guo C, Hu Q, Yan C, **Zhang J**, Multivalent binding of the ETO corepressor to E proteins facilitates dual repression controls targeting chromatin and the basal transcription machinery, **Mol Cell Biol** 29:2644-57, https://doi.org/10.1128/MCB.00073-09

2008 Lee K, Liu Y, Mo J Q, **Zhang J**, Dong Z, Lu S, Vav3 oncogene activates estrogen receptor and its overexpression may be involved in human breast cancer, **BMC Cancer** 8:158, https://doi.org/10.1186/1471-2407-8-158

2006 Plevin M J, **Zhang J**, Guo C, Roeder R G, Ikura M, The acute myeloid leukemia fusion protein AML1-ETO targets E proteins via a paired amphipathic helix-like TBP-associated factor homology domain, **Proc Natl Acad Sci U S A** 103:10242-10247, https://doi.org/10.1073/pnas.0603463103

2004 **Zhang J**, Kalkum M, Yamamura S, Chait B T, Roeder R G, E protein silencing by the leukemogenic AML1-ETO fusion protein, **Science** 305:1286-9, https://doi.org/10.1126/science.1097937

2002 Hug B A, Lee S Y, Kinsler E L, **Zhang J**, Lazar M A, Cooperative function of Aml1-ETO corepressor recruitment domains in the expansion of primary bone marrow cells, **Cancer Res** 62:2906-12, https://www.ncbi.nlm.nih.gov/pubmed/12019171

2002 **Zhang J**, Kalkum M, Chait B T, Roeder R G, The N-CoR-HDAC3 nuclear receptor corepressor complex inhibits the JNK pathway through the integral subunit GPS2, **Molecular Cell** 9:611-623, https://doi.org/10.1016/S1097-2765(02)00468-9

2001 **Zhang J**, Hug B A, Huang E Y, Chen C W, Gelmetti V, Maccarana M, Minucci S, Pelicci P G, Lazar M A, Oligomerization of ETO is obligatory for corepressor interaction, **Molecular and Cellular Biology** 21:156-163, https://doi.org/10.1128/MCB.21.1.156-163.2001

2000 Huang E Y, **Zhang J**, Miska E A, Guenther M G, Kouzarides T, Lazar M A, Nuclear receptor corepressors partner with class II histone deacetylases in a Sin3-independent repression pathway, **Genes Dev** 14:45-54, https://www.ncbi.nlm.nih.gov/pubmed/10640275

1999 **Zhang J**, Hu X, Lazar M A, A novel role for helix 12 of retinoid X receptor in regulating repression, **Mol Cell Biol** 19:6448-57, https://doi.org/10.1128/MCB.19.9.6448

1998 Gelmetti V, **Zhang J**, Fanelli M, Minucci S, Pelicci P G, Lazar M A, Aberrant recruitment of the nuclear receptor corepressor-histone deacetylase complex by the acute myeloid leukemia fusion partner ETO, **Mol Cell Biol** 18:7185-91, https://doi.org/10.1128/MCB.18.12.7185

1998 **Zhang J**, Guenther M G, Carthew R W, Lazar M A, Proteasomal regulation of nuclear receptor corepressor-mediated repression, **Genes Dev** 12:1775-80, https://doi.org/10.1101/gad.12.12.1775

1997 Zamir I, **Zhang J**, Lazar M A, Stoichiometric and steric principles governing repression by nuclear hormone receptors, **Genes Dev** 11:835-46, https://doi.org/10.1101/gad.11.7.835

1997 **Zhang J**, Zamir I, Lazar M A, Differential recognition of liganded and unliganded thyroid hormone receptor by retinoid X receptor regulates transcriptional repression, **Mol Cell Biol** 17:6887-97, https://doi.org/10.1128/MCB.17.12.6887

1996 Reginato M J, **Zhang J**, Lazar M A, DNA-independent and DNA-dependent mechanisms regulate the differential heterodimerization of the isoforms of the thyroid hormone receptor with retinoid X receptor, **J Biol Chem** 271:28199-205, https://doi.org/10.1074/jbc.271.45.28199

1994 **Zhang J**, Yeh M, Cloning, sequencing and analyzing of the heavy chain V region genes of human polyreactive antibodies, **Cell Research** 4:31-46, https://doi.org/10.1038/cr.1994.4

1993 **Zhang J**, Yeh M, Characterizing genes encoding the variable regions of heavy chains of human polyreactive antibodies (in Chinese), **Progress in Biochemistry and Biophysics** 20:40-41, http://www.pibb.ac.cn/pibbcn/article/abstract/19930111

1992 **Zhang J**, Liu W Y, Identification of the catalytic site of Trichosanthin on eukaryotic ribosomal 28S RNA (in Chinese), **Progress in Biochemistry and Biophysics** 19:131-131, https://www.pibb.ac.cn/pibbcn/article/abstract/19920213

1992 **Zhang J** S, Liu W Y, The mechanism of action of trichosanthin on eukaryotic ribosomes–RNA N-glycosidase activity of the cytotoxin, **Nucleic Acids Res** 20:1271-5, https://doi.org/10.1093/nar/20.6.1271

Editorial and Review Articles

2017 **Zhang J**, Gow C H, Khan S, Liu Y, Yang C, Transcriptional and Genomic Control of Stem Cells in Development and Cancer, **Stem Cells Int** 2017:2513598,

https://doi.org/10.1155/2017/2513598

2017 Steinauer N, Guo C, **Zhang J**, Emerging Roles of MTG16 in Cell-Fate Control of Hematopoietic Stem Cells and Cancer, **Stem Cells Int** 2017:6301385, https://doi.org/10.1155/2017/6301385

2016 Li J, Guo C, Steinauer N, **Zhang J**, New insights into transcriptional and leukemogenic mechanisms of AML1-ETO and E2A fusion proteins, **Frontiers in Biology** 11:285-304, https://doi.org/10.1007/s11515-016-1415-1

2014 Wong M M, Guo C, **Zhang J**, Nuclear receptor corepressor complexes in cancer: mechanism, function and regulation, **Am J Clin Exp Urol** 2:169-87, https://www.ncbi.nlm.nih.gov/pubmed/25374920

2000 **Zhang J**, Lazar M A, The mechanism of action of thyroid hormones, **Annu Rev Physiol** 62:439-66, https://doi.org/10.1146/annurev.physiol.62.1.439

1994 **Zhang J**, Liu W Y, Progress in topography of ribosomal RNA and RNA N-glycosidase research (I), **Progress in Biochemistry and Biophysics** 21:23-7, https://www.pibb.ac.cn/pibbcn/article/abstract/19940107

1994 **Zhang J**, Liu W Y, Progress in topography of ribosomal RNA and RNA N-glycosidase research (II), **Progress in Biochemistry and Biophysics** 21:113-117, https://www.pibb.ac.cn/pibbcn/article/abstract/19940107

Conference Abstracts

Oral Presentation

2021 Steinauer N, Guo C and **Zhang J**. Deciphering gene regulatory networks via logistic regression of cistromic and transcriptomic features in disease models. AlCoB 2020/2021, 7th International Conference on Algorithms for Computational Biology, Missoula, Montana, USA (Selected for oral presentation)

2016 Steinauer N, Wong M, Guo C, Freter CE, and **Zhang J**. A novel CD34/ETO2/IFNGR gene regulatory axis Is implicated in poor-prognosis cases of t(8;21) AML. September 16-17, 2016. 2016 ASH Meeting on Hematologic Malignancies. Chicago. IL Oral Presentation.

2012 Duan X, Guo C, Gardner A, Khan S and **Zhang J**. A novel histone deacetylase complex plays both coactivator and corepressor roles in AIB1 transcription, 5th Biennial Great Lakes Nuclear Receptor Conference. Date: October 12-13, 2012, Northwestern University, Chicago, IL. Oral Presentation.

2009 Guo C, Vasiliauskas J and **Zhang J**. GPS2 facilitates functional nuclear receptor corepressor-PPARgamma interaction in vivo. Cincinnati Cancer Symposium: 2009 Jensen Symposium on Nuclear Receptors. Date: Oct 14-15, 2009. Cincinnati, OH. Oral presentation.

2007 Yan C, Hu Q, Guo C, Kalkum M and **Zhang J**. Novel histone deacetylase complexes that contain nuclear receptor coactivators involved in estrogen receptor function. Midwest Regional Molecular Endocrinology Conference. Date: May 18, 2007. Indianapolis, IN. Oral presentation.

2007 **Zhang J** and Guo C. Novel mechanisms of transcriptional corepressor functions in normal and disease-associated pathways. Midwest Regional Molecular Endocrinology Conference. Date: May 18, 2007. Indianapolis, IN. Oral presentation.

Poster presentation

2022 Morgan J, Guo C, Huang C, Steinauer N., Scannell A, Goyal S and **Zhang J**. TBLR1 Maintains Retinoic Acid Resistance in Non-APL Acute Myeloid Leukemia by Inhibiting RARa Recruitment2022 Cancer Research Symposium, December 9, 2022, Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine at St. Louis, St. Louis, MO.

2022 Schafer R, Giancotti L, Chen Z, Doyle T, Harada C, **Zhang J**, Salvemini D. A Role of NOD2 in CARTp-mediated Mechano-hypersensitivity. EXPERIMENTAL BIOLOGY 2022. Philadelphia, Pennsylvania, USA. April 2-5, 2022

2022 Braden K, Campolo M, Chen Z, Giancotti, LA, Li Y, Doyle TM, Esposito E, **Zhang J**, Salvemini D. Investigating the Molecular Mechanisms Driving 7alpha,25-dihydroxycholesterol-GPR183-Induced Hypersensitivity. EXPERIMENTAL BIOLOGY 2022. Philadelphia, Pennsylvania, USA. April 2-5, 2022

2018 Steinauer N, Guo C, Wong M, Freter CE, and **Zhang J**. Differential regulation of ETO2 gene expression determines patient-specific outcome in acute myeloid leukemia. Advancing Precision Medicine through Translational Genomics. 1st Annual ICTS Symposium. January 16, 2018. Washington University in St. Louis. St Louis, MO.

2017 Steinauer N, Guo C, Wong M, Freter CE, and **Zhang J**. ETO2 Regulates Cell-Fate Genes and Controls Relapse in Acute Myeloid Leukemia. 59th ASH Annual Meeting, Atlanta, GA, USA, 2017. December 9-12, 2017. Poster Presentation.

2016 Steinauer N, Guo C, Wong M, Freter CE, and **Zhang J**. A novel CD34/ETO2/IFNGR gene regulatory axis is implicated in poor prognosis cases of t(8;21) AML. ASH Annual Meeting, San Diego, CA, USA, 2016. December 3-6, 2016. Poster Presentation.

2015 Guo C, Madeline M. Wong M, Chien-Hung Gow C-H, Zha J and **Zhang J**. RNA polymerase II is a direct and functional target of the AML1-ETO leukemia fusion protein. EVOLUTION AND CORE PROCESSES IN GENE REGULATION. June 25-28, 2015, Washington University, St. Louis, MO. Poster Presentation.

2015 Guo C, Wong M, Steinauer N, Chien-Hung Gow C-H and **Zhang J**. A leukemogenic strategy to enforce promoter-proximal pausing and enhancer elongation of RNA polymerase II in a gene-specific manner. MECHANISMS OF EUKARYOTIC TRANSCRIPTION. August 25–August 29, 2015. Cold Spring Harbor Laboratories, Cold Spring Harbor, NY. Poster Presentation.

2015 Steinauer N, Wong M, Guo C, Freter CE, and **Zhang J**. The stem cell marker gene CD34 is transcriptionally activated by t(8;21) leukemia fusion proteins. The 2015 Midwest Regional Meeting of the American Physician Scientists Association (APSA). October 24, 2015. St. Louis, MO. Poster Presentation.

2014 Pouncil G, Guo C, Wong, MM and **Zhang J**. The transcriptional activity of AML1-ETO requires its interactions with E-proteins. 2014 Undergraduate Research/Graduate School (URGS) Retreat. Date: September 26-27, 2014, University of Tennessee, Knoxville, TN. Poster Presentation.

2012 Gow C-H, Guo C and **Zhang J**. Inter-domain crosstalk modulates E2A sensitivity to ETO-mediated repression. NIDDK workshop on Regulatory Determinants of Hematopoietic Stem Cell Differentiation and Terminal Development: New Insights. Date: February 20, 2012. Washington DC. Poster Presentation.

2012 Gow C-H, Guo C and **Zhang J**. Inter-domain crosstalk modulates E2A sensitivity to ETO-mediated repression. The 10th Midwest Blood Club Symposium. Date: March 15-16, 2012, Indianapolis, IN. Poster Presentation.

2012 Gow C-H, Guo C, Duan X and **Zhang J**. E-proteins are essential cooperative factors for transcriptional repression mediated by the AML1-ETO leukemia fusion protein. Transcriptional regulation: Chromatin and RNA Polymerase II. Date: October 4-8, 2012, Snowbird, UT. Poster Presentation.

2007 Guo C, Hu Q, Yan C and **Zhang J**. ETO domain crosstalk specifies two pathways in the repression of E protein-mediated transcription. Cold Spring Harbor Laboratory Meeting on Mechanisms of Eukaryotic Transcription. Date: Aug 29-Sep 2, 2007. Cold Spring Harbor, NY. Poster presentation.

2007 Guo C, **Zhang J**. Novel mechanisms of post-transcriptional regulation of HDAC3. Midwest Regional Molecular Endocrinology Conference. Date: May 18, 2007. Indianapolis, IN. Oral presentation.

2006 Gural A, Jankovic V, **Zhang J**, Roeder RG, Nimer SD. The deletion of NHR1 region of the AML1-ETO protein significantly decreases its ability to promote proliferation and self-renewal of early hematopoietic cells in culture. 48th Annual Meeting of the American-Society-of-Hematology. Date: Dec 09-12, 2006. Orlando, FL. Poster Presentation.

2004 **Zhang J**, Kalkum M, Yamamura S, Chait BT and Roeder RG. E protein silencing by the leukemogenic AML1-ETO fusion protein. The Leukemia and Lymphoma Society Stohlman Scholar Symposium. Date: Nov 2004. St. Louis, MO. Poster presentation.

2002 **Zhang J**, Kalkum M, Chait BT and Roeder RG. The N-CoR-HDAC3 nuclear receptor corepressor complex inhibits the JNK pathway through a novel integral subunit GPS2. Keystone Symposia on Nuclear Receptor Superfamily. Date: Apr 13-19, 2002. Poster presentation.

1998 **Zhang J**, Gelmetti V, Fanelli M, Minucci S, Pelicci PG and Lazar MA. Aberrant recruitment of the nuclear receptor corepressor-histone deacetylase complex by the acute myeloid leukemia fusion partner ETO. NIH Workshop: Co-Activators and Co-Repressors in Gene Expression. Date: Dec 15-16, 1998. Bethesda, MD. Poster presentation.

PUBLISHED HIGH-THROUGHPUT DATASETS

2020 GSE143895, GPR160 de-orphanization reveals critical roles in neuropathic pain in rodents

2020 PXD017230, human HDAC3 and interesting proteins

2019 GSE131939, Paired ChIP-Seq studies of Kasumi-1 t(8;21) AML cells

2019 GSE126953, ChIP-Seq of CBFA2T3 (ETO2) in CD34+ HSPC and AML cells

2015 GSE72427, Binding site-dependent effects of AML1-ETO leukemia fusion protein on RNA Pol II pausing and enhancer activation

INVITED TALKS

Department of Biology, Saint Louis University, October 2020

Department of Hematology, Nanjing University School of Medicine, June 2017

SLU Cancer Center Grand Rounds, October 2015

Department of Biochemistry and Molecular Biology, Saint Louis University School of Medicine, October 2, 2014

City of Hope Beckman Research Institute, Department of Immunology, August 29, 2014

Department of Pharmacology and Physiology, Saint Louis University School of Medicine. July 31, 2013

MD Anderson Cancer Center, Houston, June 22, 2012

The Scripps Research Institute, Florida, March 7, 2012

Center for Nuclear Receptors and Cell Signaling, University of Houston, February 27, 2012

Department of Molecular Genetics Seminar Series, Biochemistry & Microbiology Seminar, University of Cincinnati, May 12, 2009

Department of Cancer and Cell Biology Seminar Series, University of Cincinnati, February 26, 2009

Department of Surgery Seminar Series, University of Cincinnati, December 7, 2007

Hormonal Carcinogenesis Research Program Seminar, University of Cincinnati, October 1, 2007

Research Seminar for Upcoming Graduate Students, Cancer and Cell Biology, University of Cincinnati, October 6, 2006, February 17, 2007, July 9, 2007, July 8, 2008

The Cancer Center Pilot Grant Symposium, University of Cincinnati, June 15, 2006

Department of Pharmacology, University of Virginia, March 29, 2005

Department of Molecular Pathology, the University of Texas MD Anderson Cancer Center, April 5, 2005

Department of Cell Biology, Neurobiology & Anatomy, University of Cincinnati, March 24, 2005

Department of Biochemistry and Molecular Biology, University of Florida College of Medicine, March 14, 2005

Department of Molecular Medicine, Cornell University, March 7, 2005

The Institute of Cancer Research, London, UK, February 23, 2005

University of Toronto, December 15, 2004

The Rockefeller University Tri-Lab Seminar, October 2002

Wistar Institute Transcription Research Seminar, University of Pennsylvania, February 1999

AWARDS AND HONORS

2022 Graduate Teaching Award Finalist, Saint Louis University

2021 Distinguished Reviewer of *Translational Cancer Research*

2020 Editor's Pick, Journal of Biological Chemistry

2017 Abstract Achievement Award, 59th ASH Annual Meeting

2016 Abstract Achievement Award, 2016 ASH Meeting on Hematologic Malignancies

2005 Co-recipient of the National Natural Science Award in China
国家自然科学奖目录二等奖(*Z-105-2-04*)
Structure and functional study of ribosome-inactivating proteins

(Awardee: Liu WY, Zhang J, Liu RS, He WJ, Ling J)

2003 Special Fellow, Leukemia and Lymphoma Society

2000 Fellow, Leukemia and Lymphoma Society

1984-88 Best Academic Achievement Award, Nanjing University

1984 Winner of Computer competition, Nanjing University

1982-83 National Mathematics Competition Winner

GRANTS, CONTRACTS AND FELLOWSHIPS

	Awarded funding	Pending
Total	$5,836,524 (PI: $3,416,985)	$2,672,741
Extramural	$5,214,024 (PI: $2,794,485)	$2,672,741

Active

2022–23 The Henry and Amelia Nasrallah Center for Neuroscience Research Seed Grant ($16,000) Exploring the role of G-protein pathway suppressor 2 in fetal brain development and neoplastic signals using innovative single-cell transcriptomics and knockout animal models. PI

2022–23 SLU Grant Incubator Program. Function and targeting of a novel pro-leukemic transcriptional coregulator axis in acute myeloid leukemia ($10000). PI.

2021– Technology Licensing (MilliporeSigma).

2015– dbGaP (Database of Genotypes and Phenotypes) Dataset Project # 9703 (NCI/dbGaP) Exploring novel therapeutic targets in pediatric leukemias. PI.

2015– dbGaP Dataset Project #9140 (NCI/NHGRI). Characterization of leukemia fusion proteins. Sub-Project 1: Bioinformatics analysis of gene expression in adult primary AML patient samples in The Cancer Genome Atlas (TCGA) consortium. Sub-Project 2: Analyses of gene expression changes between primary and relapsed AML patient samples using the patient-matched dataset (GSE83533, phs001027.v1.p1). PI.

2014– Saint Louis University Start-Up ($500,000). PI.

Pending

2023–28 NIH 1R01CA280854-01 ($2,104,615.00) (A0 Under review). Develop novel combinatorial approaches to overcome retinoic acid resistance in acute myeloid leukemia. PI.

2023–25 NIH/NCI 1R03CA253322-01A1 ($151,500.00) (A1 36, pending resubmission). Role of a novel transcriptional coactivator/corepressor axis in clonal expansion of recurrent AML cells. PI.

2023–25 NIH/NCI 1R21CA274424-01 ($416,626.00) (A0 41% pending revision). The interplay between GCN5 and HDAC3 in transcription and AML progression. PI.

Completed

2019–21 WUSTL/Siteman Cancer Center Investment Program Award ($120,000). Lysine acetylation of human histone deacetylase 3 as a new cancer target. PI

2016–18 1R01AR069280-01A1 (NIH/ NIAMS) ($1,161,332) (Burris PI) ERRgamma Agonists to Treat Muscular Dystrophy. Co-I.

2016–18 1R01 MH092769-06A1(NIH/NIMH ($1,258,207) (Burris PI) Development of RORalpha and RORgamma Ligands for Treatment of Behavioral Disorders. Co-I

2016–20 T32GM008306-26A1 (NIH/NIGMS) (Burris PI) PHARMACOLOGICAL SCIENCES TRAINING GRANT. Faculty Mentor.

2019–20 SLU Presidents' Research Fund ($25,000) Lysine acetylation of histone deacetylase 3 as a new target for cancer therapy. PI.

2014–17 R21CA178513 (NIH/NCI) ($362,464) Human HDAC3: mechanism of activation and proteasomal degradation. PI.

2009–16 R01 HL093195 (NIH/NHLBI)($1,935,998) Aberrant hematopoiesis: E proteins and AML1-ETO in leukemogenesis. PI.

2015–16 BIO150049/MCB150022P (Pittsburgh Supercomputing Center/XSEDE/NSF) (4000 SUs/year at Pittsburgh Supercomputing Center). Genome-wide analysis of leukemia fusion proteins. PI.

2015–16 SLU Presidents' Research Fund ($25,000) Role of Breast Cancer Anti-Estrogen Resistance Protein BCAR2 in Regulation of AIB1 Transcription and Estrogen Receptor alpha Signaling. PI.

2013–14 University of Cincinnati Center for Clinical and Translational Science and Training Pilot Grant ($7,500) ChIP-Seq analysis of AML1-ETO leukemia fusion protein, E-proteins, and RNA Polymerase II in leukemia cells. PI.

2013–14 Marlene Harris-Ride Cincinnati Breast Cancer Pilot Grant Program($40,000). Regulation and function of LMO7 in metastatic breast cancer. PI.

2009–12 NIH/NCI T32 Training Grant CA059268 (Khan, PI). Regulation of Cellular Growth and Differentiation. Faculty Mentor

2008–10 Ohio Cancer Research Associates Pilot Grant ($50,000) Role of E protein inactivation in leukemogenesis by AML1-ETO. PI.

2008–09 University of Cincinnati Research Council Faculty Research Support Grant ($6,500) Human histone deacetylase 3: compartment-specific functions and proteasomal degradation. PI

2008–09 American Cancer Society Institutional Research Grant IRG-92-026-12 (Stambrook, PI) ($20,000) Involvement of an architectural transcription factor p37 in estrogen receptor alpha function and tamoxifen resistance. PI.

2006–07 University of Cincinnati Cancer Center Pilot Grant ($40,000) GPS2 functions in cytokine signaling and tamoxifen resistance. PI.

2004–05 NIH 5P41RR000862-31 NATIONAL CENTER FOR RESEARCH RESOURCES. Sub-Project ID: 0129 ($3,523). COMPREHENSIVE ANALYSIS OF HUMAN HISTONE DEACETYLASE. PI.

2003–06 Leukemia and Lymphoma Society Special Fellowship Award ($150,000). PI.

2000–03 Leukemia and Lymphoma Society Postdoctoral Fellowship Award ($105,000). PI.

COURSES TAUGHT

University of Cincinnati

Cell Biology (26GNTD873001): Nucleus structure & function

Biology of Cancer (26CB880001): Hormonal Carcinogenesis

Biology of Cancer (26CB880001): Cancer Epigenetics

Data Critique and Presentation level-I (26CB923001)

Data Critique and Presentation level-II (26CB926001)

Data Critique and Presentation level-III (26CB924001)

Saint Louis University

Special Topics in Basic Biomedical Sciences (BBSG-502)

Basic Biomedical Sciences II (BBSG-503): Nuclear Receptors: Structure, function &mechanism

Basic Biomedical Sciences II (BBSG-503): Leukemogenesis, Cancer Epigenetics

Basic Biomedical Sciences II (BBSG-503): A practical training in bioinformatics

Advanced Topics in Pharmacological and Physiological Science II (PPYG-513)

Grant Writing Course (PPY514)

Cellular and Molecular Biology (CMB-100)

Special Topics in Basic Biomedical Sciences II (BBSG-504)

Journal Club (PPY6900-0) (Course Director)

SERVICE

Journal Editor

PLOS ONE, Academic Editor, 2014–

Proteomes, Special Issue Editor 2022–: *Proteomics in Cancer and Personalized Medicine*

Stem Cells International, Special Issue Editor 2016–2017: *Transcriptional and Genomic Control of Stem Cells in Development and Cancer*

Journal Peer Review

Nature Communications

Science Advances

Molecular Cell

Nucleic Acids Research

PLOS ONE

Journal of Leukocyte Biology

Haematologica

Cell & Bioscience

Cancer Research

Molecular Cancer Research

Cancer Biotherapy & Radiopharmaceuticals

Oncotarget

Cell Biology and Toxicology

Molecules

Peptides

Translational Cancer Research

Molecular Biology Reports

Stem cells International

Funding Agency Peer Review

Extramural

2022 Swiss Cancer Research foundation & Swiss Cancer League, Switzerland

2016-22 National Cancer Institute (Provocative Questions, R03, R21, R01, SPORE): ZCA1 RPRB-6(M1), ZCA1 RPRB-6(M2), ZCA1 RPRB-6(O1), ZCA1 RPRB-7(M1), ZCA1 RPRB-N (M1) S, ZCA1 SRB-K J1, ZCA1 SRB-K J2, ZCA1 SRB-K O2, ZCA1 SRB-K(J1), ZCA1 SRB-K(J2), ZCA1 SRB-K(M1), ZCA1 SRB-K(O1)

2016 Leukemia and Lymphoma Research Foundation, UK

2015 Bloodwise Foundation, UK

Intramural

2022 Saint Louis University Grant Incubator Program

2020 Saint Louis University President's Research Fund

2012 University of Cincinnati Center for Environmental Genetics

Service to the Research Community

Galaxy@SLU website, http://pharmacology.slu.edu/, 2019–

Web application: Exploring leukemia prognosis using Shiny, 2018–

Service to the University

Saint Louis University School of Medicine Research IT Working Group, 2022–

Saint Louis University School of Medicine "Find Our Faculty" Ad hoc committee, 2020–2021

Saint Louis University School of Medicine Department of Pharmacology and Physiology Web-Site Committee, 2015-2022

Saint Louis University School of Medicine Department of Pharmacology and Physiology Journal Club Committee (Chair), 2019–

Saint Louis University Radiation Safety Committee (RSC), 2017–

Saint Louis University School of Medicine MD/PhD Admission Committee, 2016–

Saint Louis University School of Medicine MD/PhD Steering Committee, 2016–

Saint Louis University Biomedical Sciences Graduate Program PhD Qualifying Exam Standing Committee, 2014–

Saint Louis University Biomedical Sciences Graduate Program Steering Committee, 2014–

Joint Provost-Faculty Senate Committee on Mid-Career Faculty Development, 2017–2019

Saint Louis University School of Medicine By-laws and Constitutional Committee, 2017

Saint Louis University School of Medicine Workload Policy Committee, 2016

Saint Louis University School of Medicine Faculty Assembly Committee, 2015–2019

University of Cincinnati Cancer and Cell Biology PhD Program Steering Committee, 2007–2008

University of Cincinnati Cancer and Cell Biology Graduate Program Qualifying Exam Standing Committee, 2007–2008

National Research Council Survey of Doctoral Graduate Program Faculty Coordinator, 2007

University of Cincinnati Cancer and Cell Biology PhD Admission Committee,2006–2008

University of Cincinnati Graduate Student Research Judge, 2006–2007

Judge Committee, 2015 American Physician Scientist Association Midwest Regional Meeting

Discussant, 2018 Annual AOA Medical Student Research Forum

Doctoral Qualifying Exam Committees

Nicholas Olshavsky, University of Cincinnati

Sucharitha Balasubramaniam, University of Cincinnati

Trudy Aebig, University of Cincinnati

Jason Puglise, University of Cincinnati

Supriya Shah, University of Cincinnati

David Tompkins, University of Cincinnati

Purnima Wagh (Chair), University of Cincinnati

Ryan Welch (Chair), Saint Louis University

Monideepa Sengupta (Chair), Saint Louis University

Deborah Roby, Saint Louis University

Katie J. Carpenter, Saint Louis University

Meghan H. Murray (MD/PhD Candidate), Saint Louis University

Nick P. Steinauer (MD/PhD candidate), Saint Louis University

Shabnam J. Majidi, Saint Louis University

Suomia A. Abuirqeba (Chair), Saint Louis University

Emmalie Schoepke, Saint Louis University

Doctoral Dissertation Committees

Chien-Hung Gow, University of Cincinnati

Nicholas Olshavsky, University of Cincinnati

Kevin Link, University of Cincinnati

Ryan Welch, Saint Louis University

Monideepa Sengupta, Saint Louis University

Deborah Roby, Saint Louis University

Suomia A. Abuirqeba, Saint Louis University

Emmalie Schoepke, Saint Louis University

Meghan H. Murray (MD/PhD Candidate) Saint Louis University

Nick Steinauer (MD/PhD Candidate) Saint Louis University

Monica Goodland (MD/PhD Candidate) Saint Louis University

Doctoral Dissertation Advisor

Chien-Hung Gow, PhD (2010-2014), University of Cincinnati. Current Position: Assistant professor, Department of Healthcare Information and Management, Ming-Chuan University, Taiwan.

Nicholas Olshavsky, PhD (2008-2010), University of Cincinnati. Current position: Director, Clinical Trial Management at Medpace. Co-Mentor.

Nick Steinauer, MD/PhD (2016-2020), Saint Louis University. Current position: Resident at Hematology-Oncology at Mayo Clinic Rochester.

Post-doctor Supervisor

Chunxia Yan, MD/PhD (2006-2007), University of Cincinnati.

Qiande Hu, PhD (2007-2009), University of Cincinnati.

Yali Li, MD/PhD (2010-2011), University of Cincinnati.

Xin Duan, PhD (2012-2013), University of Cincinnati.

Madeline Wong, PhD (2014-2015), Saint Louis University.

Jikun Zha, PhD (2014-2015), Saint Louis University.

Jian Li, PhD (2015-2016), Saint Louis University.

Doctoral Student Rotation Supervisor

Jaclyn Whalen (2021), Saint Louis University

Alexandria Dickson (2019), Saint Louis University

Allyson Cochran (2016), Saint Louis University

Nickolas Steinauer (2015-2016), Saint Louis University School of Medicine

Chien-Hung Gow (2010), University of Cincinnati

Tomilowo Abijo (2010), University of Cincinnati

Juozas Vasiliauskas (2008), University of Cincinnati

MD Student Research Supervisor

Brent Wu (2019 Summer), Saint Louis University

Jennifer Morgan (2020 Summer), Saint Louis University

Christopher Hood (2020 Fall–2021 Spring), Saint Louis University

High School, College Student Research Advising

David Wang, Mason High School (2011-2014), Research Projects for Intel International Science and Engineering Fair Competition.
–1st Alternate Award, 2012 OHIO JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM
–1st Alternate Award, 2013 OHIO JUNIOR SCIENCE AND HUMANITIES SYMPOSIUMACS Chemical Sciences Award (2013)
–2nd place award, 2014 OHIO JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM
–Semi-finalist recognition, 2014, Siemens Competition in Math, Science & Technology

Gabrielle Pouncil (Summer 2014, Fall 2014), Harris-Stowe State University

Sibani Mangal (Fall 2014, Spring 2015), Department of Biology, Saint Louis University College of Arts and Sciences

David Pan (Summer 2015), Saint Louis University

Sumrah Khan (Summer 2017), Doisy Summer Scholar Program, Saint Louis University

MEMBERSHIPS

American Society of Hematology

American Association for the Advancement of Science

American Society for Biochemistry and Molecular Biology

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