JUN WAN, PH.D.

Department of Medical and Molecular Genetics Indiana University School of Medicine

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EDUCATION & TRAINING

Postdoctoral Fellow Bioinformatics, Wilmer Institute, Johns Hopkins University School of Medicine, Baltimore, MD USA

Apr 2011

Postdoctoral Fellow Optical imaging, Department of Electrical and Computer Engineering, University of Victoria, Victoria, BC Canada

Jul 2007

Ph.D. Computational Physics, Department of Physics, Queen's University, Kingston, ON Canada

Jun 2006

M.S. Condensed Matter Physics, Department of Physics, Fudan University, Shanghai, China Jan 2001

B.S. Applied Physics, Department of Applied Physics, Shanghai Jiaotong University, Shanghai, China Jul 1991

POSITIONS HELD

Department of Medical and Molecular Genetics, Indiana University School of Medicine, Indianapolis, IN USA

• Tenure-track Assistant Professor

Dec 2016 – present

Indiana University Simon Comprehensive Cancer Center, Indianapolis, IN USA

• Director of Cancer Bioinformatics Core

Jul 2019 – present

Director of Collaborative Core for Cancer Bioinformatics (C³B) shared by Indiana
 University Simon Comprehensive Cancer Center and Purdue University Center for Cancer
 Research
 Dec 2016 – present

Center for Computational Biology and Bioinformatics (CCBB), Indiana University School of Medicine, Indianapolis, IN USA

• Core member

Dec 2016 – present

Department of BioHealth Informatics, Indiana University School of Informatics and Computing, Indiana University – Purdue University at Indianapolis, IN USA

Adjunct Assistant Professor

Jul 2017 – present

Wilmer Institute, Johns Hopkins University School of Medicine, Baltimore MD USA

Research Associate (Faculty)

Apr 2015 – Dec 2016

• Senior Bioinformatician

Apr 2011 – Apr 2015

Department of Physics and Materials Science, City University of Hong Kong, Hong Kong China

• Research Assistant I (full time)

Jul 1999 – Jun 2000

HONORS AND AWARDS

Ontario Graduate Scholarship, ON Canada 2004-2005
Carl Reinhardt Fellowship, Queen's University, Kingston, ON Canada 2003-2005
Queen Elizabeth II Graduate Scholarship in Science and Technology, ON Canada 2002-2003
Carl Reinhardt Fellowship, Queen's University, Kingston, ON Canada 2001-2002

PROFESSIONAL SERVICES

Editorial board

- Editorial Board Member, *Briefings in Bioinformatics* (IF: 11.62) 2017 present
- Editorial Board Member, *International Journal of Computational Biology and Drug Design* 2012 present
- Topics Board Member, *Life* (IF: 3.81) 2019 present
- Guest Editor, Special Issues "Computational Systems Biology" of Scientific World Journal 2013

Journal ad hoc review

• Lancet (IF: 79.32), Cell Research (IF: 25.62), Nucleic Acids Research (IF: 16.97), Genome Biology (IF: 13.58), Briefings in Bioinformatics (IF: 11.62), Clinical and translational medicine (IF: 11.49), Environment International (IF: 9.62), Genomics Proteomics & Bioinformatics (IF: 7.69), BMC Biology (IF: 7.43), Genes & Diseases (IF: 7.10), Frontiers in Cell and Developmental Biology (IF: 6.68), Cells (IF: 6.60), Bioinformatics (IF: 6.57), Epigenetics (IF: 4.53), PLoS Computational Biology (IF: 4.48), Genes (IF: 4.10), Frontiers in Neurology (IF: 4.00), BMC Genomics (IF: 3.97), PLoS One (IF: 3.24), Translational Vision Science & Technology (IF: 3.28), Journal of Medical Virology (IF: 2.33), Oncotarget, Journal of Biomedicine and Biotechnology, Journal of Integrative Bioinformatics

Grant review

- DFG (German Research Foundation) on "COVID-19 Focus Funding: SARS-CoV-2 Sequencing Projects"
- Study Section: Ohio State University Center for Clinical and Translational Science (CCTS)
 Pilot Grants 2020
- Study Section: Research Support Funds Grant (RSFG) from IUPUI Office of the Vice Chancellor for Research 2017
- Study Section: Indiana University Simon Cancer Center Pilot Grants 2017

 Study Section: Indiana Clinical and Translational Sciences Institute (CTSI) Pilot Grants 2017

Other professional services

- Co-Chair, Tutorial Session of the 12th Association of Computing Machinery (ACM) Conference on Bioinformatics, Computational Biology, and Health Informatics 2021
- Chair, Session "AI in Omics", and Moderator of Panel Discussion on "Traditionalist vs AI approaches", 2021 Conference of "Bringing Artificial Intelligence to the Bedside", West Lafayette, Indiana USA
- Chair, Organizing Committee for IUSM CCBB Annual Retreat 2020 2021
- Chair, Seminar Committee at the Center for Computational Biology and Bioinformatics (CCBB), Indiana University School of Medicine
 2019 – present
- Chair, Session "Cancer Genomics" in 2018 International Conference on Intelligent Biology and Medicine, Los Angeles CA USA
- Co-chair, Organizing Committee for Walther Cancer Foundation Annual Symposium at Notre Dame University
 2018
- Co-chair, Session of Bioinformatics, Walther Cancer Foundation Annual Symposium
 2018
- Program Committee Member, International Conference on Intelligent Biology and Medicine
 2012 present
- Program Committee Member, Workshop on Integrative Data Analysis in Systems Biology in the IEEE International Conference on Bioinformatics and Biomedicine 2010 present
- Organizer, Wilmer Eye Institute Research Discussion 2008 2009

FUNDED GRANTS

Active grants

- NIH/NCI U01 CA240346 Yang (PI) Role: IU Site PI 04/01/20 03/31/25 Title: Nucleolin recognition of MYC promoter G-quadruplex and its role in MYC regulation by MycG4-ligands
 - The goal of this study is to understand the nucleolin genomic binding sites in relation to the G4-loci especially in the MYC promoter induced by MycG4-ligands by employing multiple omics approaches, such as ChIP-seq and RNA-seq.

Total cost: \$66,000

- NIH/NCI R01 CA248033 Lu (PI) Role: IU Site PI 04/01/20 03/31/25 Title: Converting Cold to Hot Tumor Microenvironment in Prostate Cancer by Targeting Chromatin Effector
 - The goal of this study is to characterize the function of PYGO2, a chromatin effector, to modulate gene expression in prostate cancer.

Total cost: \$83,650

• NIH/NCI P30 CA082709-20 Lee (PI) Role: Module PI 09/01/19 – 08/31/24

Title: Indiana University Melvin and Bren Simon Cancer Center Support Grant

The goal is to support The Indiana University Melvin and Bren Simon Comprehensive Cancer Center which organizes and facilitates cancer research, education, patient care, and cancer control and prevention and to fund the Center's five research programs and seven shared facilities.

Total cost: \$13,746,024

• NIH U54 AG065181 Palkowitz (PI) Role: Co-I 09/01/19 – 08/31/24 Title: IUSM Alzheimer's Disease Drug Discovery Center

The goal of the study is to integrate sophisticated capability for early drug discovery and contribute to a broader study of emerging Alzheimer's Disease target hypothesis with the goal of generating new classes of potential therapeutics.

Total cost: \$28,074,203

Total cost: \$19,308

- NIH/NCI R25 CA233429 Zhang (PI) Role: Co-I 09/17/19 08/31/24 Title: Big Data Training for Cancer Research
 The goal of the study is to help equip the next generation of researchers by teaching, training and mentoring recipients of this fellowship in various meetings, interactions, and trainings.
- NIH R01DK121925-01A1 Dong (PI) Role: Co-I 07/01/20 06/30/24 Title: Epigenetic regulation in liver fibrosis
 The goal of the study is to identify potential drug targets for the treatment of liver fibrosis.
 Total Costs: \$1,828,228
- DOD W81XWH2010332/203995IUSM Lu (PI) Role: IU Site PI 09/30/20 09/29/23 Title: Decoding and Disrupting the Coupled Cellular Plasticity and Myeloid Cell Instigation in Metastatic Prostate Cancer

The goal of the study is to define the precise molecular and cellular mechanisms of PCa metastasis and to deliver new prognostic markers and therapeutic targets for treating lethal PCa.

Total Costs: \$32,636

• DOD W81XWH2010312/203994IUSM Lu (PI) Role: IU Site PI 09/30/20 – 09/29/23 Title: Targeting Basal-Like Prostate Cancer with Cadherin 3 Antibody-Drug Conjugate as single agent and in combination with immunotherapy The goal of the study is to check whether Cadherin 3 (CDH3), a prominent basal cell marker,

can become a potential therapeutic target for prostate cancer (PCa).

Total Costs: \$65,276

• NIH/NCI R01CA231267-03 Fehrenbacher/Kelley (PI) Role: Co-I 09/10/18 – 08/31/23 Title: (PQ12) Enhancement of DNA repair in neurons via a targeted APE1 small molecule modifier to decrease and reverse chemotherapy-induced peripheral neuropathy (CIPN) The goal of the study is to examine whether augmenting APE1 repair activity in vivo will prevent chemotherapy-induced alterations in sensory neuronal function (manifested as CIPN) without jeopardizing the cancer treatment.

Total Costs: \$460,814

• NIH R01 HL147871 Yang (PI) Role: Co-I 07/01/19 – 06/30/23

Title: Transcriptional Factor SOX2, Lncrna HBL1, MicroRNA1 and PRC2 Epigenetic Complex Compose A Network to Orchestrate Cardiac Differentiation from Human Pluripotent Stem Cells

The goal of the project is to explore the novel mechanism of nuclear HBL1 in initiating the cardiac gene-expressing program via interacting with polycomb repressive complex 2 (PRC2) and microRNA1 (MIR1).

Total cost: \$1,967,679

- NIH R01 CA225108 Yan (PI) Role: Co-I 12/01/18 11/30/23 Title: Metabolic Regulation of PD-L1 in CD11c+ Cells

 The goal of the project is to characterize developmental and metabolic regulation of PD-L1 expression in CD11c+, PD-L1 expression of CD11c+ cells in regulating T cell proliferation and functions, and PD-L1 expression of CD11c+ cells in tumor stimulation.

 Total cost: \$2,672,290
- NIH R21AG071269 Brutkiewicz (PI) Role: Co-I 09/15/20 08/31/22 Title: Analysis of the MR1/MAIT cell axis in a murine model of Alzheimer's disease Our goal in this application is to study how the immune system contributes to Alzheimer's disease development and its response to changes in bacteria that normally reside in the body. Total Costs: \$435.875
- AHA Transformational Project Award Yang (PI) Role: Co-I 07/01/19 06/30/22
 Title: Dissecting essential roles of ARID1A in controlling cardiac and neural differentiation from human pluripotent stem cells
 The goal of the study is to understand the different roles of ARID1A in controlling cell differentiations, especially for cardiac and neural cells from human pluripotent stem cells.
 Total cost: \$100,000
- American Cancer Society Kota (PI) Role: Co-I 07/01/18 06/30/22
 Title: Role of microRNA-29 in pancreatic cancer tumor-stromal biology
 The goals of the studies to explore what critical role miR-29 plays in tumor-stromal biology and that modulation of its expression will normalize the reactive stroma and enhance drug efficacy.

Total cost: \$792,000

• IUSM CCBB pilot grant Yang/Wan (MPI) 12/01/20 – 11/30/21 Title: Determining the molecular mechanisms of SARS-CoV-2 caused heart dysfunctions The goals of the study to discover the mechanism how SARS-CoV-2 viral proteins impact on cardiomyocytes development.

Total cost: \$12,000

Completed grants

• Walther Cancer Foundation Ratliff (PI) Role: IU Site co-PI 07/01/17 – 06/30/20 Title: Collaborative Core for Cancer Bioinformatics and Bioinformatics Training The Collaborative Core for Cancer Bioinformatics (C³B) has provided services for cancer scientists at Indiana University (IU) and Purdue University (PU). The goal of this program is to enhance training of junior bioinformaticians, especially the graduate student from IU and PU in state-of-the-art bioinformatics to assist the C³B teams.

Total cost: \$500,000

- Walther Cancer Foundation Loehrer (PI) Role: Co-I 07/01/15 06/30/20 Title: Bioinformatics-Molecular Genomics/Genetics Joint IU-Purdue Initiative The aim of this program is to establish a unique inter-institutional shared resource which leverages the strengths of the Indiana University Simon Cancer Center (IUSCC) and the Purdue Center for Cancer Research (PCCR), to enhance the collection and analysis of complex molecular data sets linked with annotated clinical information so as to accelerate basic discovery, drug discovery and broaden the applications of precision therapeutics. Total cost: \$500.000
- NIH SBIR Kitware, Inc. (PI) Role: Co-I 09/17/18 08/30/20 Title: Open scalable software infrastructure for metabolomics data integration The goals of the study to guide the development of the software platform to integrate multiplatform metabolomics data. Total Costs: \$286,868
- VA IPA (Richard L. Roudebush, VAMC) Zimmers (PI) Role: Co-I 04/01/20 12/31/20 Title: Inter-Personnel Agreement The goal of the study is to understanding Tumor tissue crosstalk in the microenvironment of pancreatic cancer cachexia.

Total Costs: \$7,936

PEER-REVIEW PUBLICATIONS

https://scholar.google.com/citations?user=4pP5A50AAAAJ&hl=en

Articles published as independent PI since 2017 (†co-corresponding author)

- 1. Y Chen, S Fang, Q Ding, R Jiang, J He, Q Wang, Y Jin, X Huang, S Liu, ML Capitano, T Trinh, Y Teng, Q Meng, **J Wan**[†], HE Broxmeyer[†], B Guo[†] (2021) ADGRG1 enriches for functional human hematopoietic stem cells following ex vivo expansion-induced mitochondrial oxidative stress. *Journal of Clinical Investigation* (in press). (PMID: 34464351)
- 2. Z Zhou, K Van der Jeught, Y Fang, T Yu, Y Li, Z Ao, S Liu, L Zhang, Y Yang, H Eyvani, M Cox, X Wang, X He, G Ji, B Schneider, F Guo, **J Wan**, X Zhang, X Lu (2021) Targeted breast cancer immunotherapy with epigenetic modulation of antigen presentation on tumor cells. *Nature Biomedical Engineering* (in press).
- 3. S Fang, K Li, JK Shen, S Liu, J Liu, L Yang, CD Hu, **J Wan** (2021) GESS: A database of Global Evaluation of SARS-CoV-2 Sequences. *Nucleic Acids Research* 49 (D1), D706. (PMID: 33045727)
- 4. Q Liu, <u>J Wan</u>[†], G Wang[†] (2021) A survey on computational methods in discovering protein inhibitors of SARS-CoV-2. <u>Briefings in Bioinformatics</u> (in press). (PMID: 34623382)
- 5. S Fang, S Liu, J Shen, AZ Lu, AKY Wang, Y Zhang, K Li, J Liu, L Yang, CD Hu, <u>J Wan</u> (2021) Updated SARS-CoV-2 Single Nucleotide Variants and Mortality Association. <u>Journal of Medical Virology</u> (selected as **cover image**) 93 (12), 6525. (PMID: 34245452)
- 6. G Song, G Wang, X Luo, Y Cheng, Q Song, **J Wan**, C Moore, H Song, P Jin, J Qian, H Zhu (2021) An All-to-All Approach to the Identification of Sequence-Specific Readers for

- Epigenetic DNA Modifications on Cytosine. <u>Nature Communications</u> 12 (1), 795. (PMID: 33542217)
- 7. SR Sripathi, MW Hu, RC Turaga, J Mertz, MM Liu, **J Wan**, J Maruotti, KJ Wahlin, CA Berlinicke, J Qian, DJ Zack (2021) Proteome Landscape of Epithelial-to-Mesenchymal Transition (EMT) of Retinal Pigment Epithelium Shares Commonalities With Malignancy-Associated EMT. *Molecular & Cellular Proteomics* 20:100131 (PMID: 34455105)
- 8. W Zhao, L Jiang, T Fang, F Fang, Y Liu, Y Zhao, Y You, H Zhou, X Su, J Wang, S Liu, Y Chen, **J Wan**, X Huang (2021) β-Lapachone selectively kills hepatocellular carcinoma cells by targeting NQO1 to induce extensive DNA damage and PARP1 hyperactivation. *Frontiers in Oncology* 11:747282. (PMID: 34676172)
- 9. NP Rayana, CK Sugali, J Dai, M Peng, S Liu, Y Zhang, **J Wan**, W Mao (2021) Using CRISPR interference as a therapeutic approach to treat TGFβ2-induced ocular hypertension and glaucoma. *Investigative Ophthalmology & Visual Science* 62 (12), 7. (PMID: 34499703)
- 10. D Xu, M Yang, M Capitano, B Guo, S Liu, **J Wan**, H Broxmeyer, X Huang (2021) Pharmacological activation of nitric oxide signaling promotes human hematopoietic stem cell homing and engraftment. *Leukemia* 35 (1), 229. (PMID: 32127640)
- 11. J Liu, S Liu, L Han, Y Sheng, Y Zhang, I Kim, **J Wan**, L Yang (2021) LncRNA HBL1 is Required for Genome-Wide PRC2 Occupancy and Function in Cardiogenesis from Human Pluripotent Stem Cells. *Development* 148 (13). (PMID: 34027990)
- 12. C Zhu, M Huang, HG Kim, K Chowdhury, J Gao, S Liu, **J Wan**, L Wei, XC Dong (2021) SIRT6 controls hepatic lipogenesis by suppressing LXR, ChREBP, and SREBP1. *Biochimica* et Biophysica Acta Molecular Basis of Disease 1867 (12), 166249. (PMID: 34425214)
- 13. M Bam, S Chintala, K Fetcko, BC Williamsen, S Siraj, S Liu, **J Wan**, X Xuei, Y Liu, AT Leibold, M Dey (2021) Genome wide DNA methylation landscape reveals glioblastoma's influence on epigenetic changes in tumor infiltrating CD4+ T cells. *Oncotarget* 12 (10), 967. (PMID: 34012510)
- 14. WX Huff, M Bam, JM Shireman, JH Kwon, L Song, S Newman, AA Cohen-Gadol, S Shapiro, T Jones, K Fulton, S Liu, H Tanaka, Y Liu, J Wan, M Dey (2021) Aging- and Tumor-Mediated Increase in CD8+CD28- T Cells Might Impose a Strong Barrier to Success of Immunotherapy in Glioblastoma. *ImmunoHorizons* 5 (6), 395.
- 15. C Xu, Y Fu, S Liu, J Trittipo, X Lu, R Qi, H Du, C Yan, C Zhang, **J Wan**, MH Kaplan, and K Yang (2021) BATF regulates T regulatory cell functional specification and fitness of triglyceride metabolism in restraining allergic responses. *Journal of Immunology* 206 (9), 2088. (PMID: 33879580)
- 16. N Morral, S Liu, AM Conteh, X Chu, Y Wang, XC Dong, Y Liu, AK Linnemann, **J Wan** (2021) Aberrant gene expression induced by a high fat diet is linked to H3K9 acetylation in the promoter-proximal region. *Biochimica et Biophysica Acta Gene Regulatory Mechanisms* 1864 (3), 194691. (PMID: 33556624)
- 17. MY Zhang, S Fang, H Gao, X Zhang, D Gu, Y Liu, **J Wan**, J Xie (2021) A critical role of AREG for bleomycin-induced skin fibrosis. *Cell & Bioscience* 11 (1), 40. (PMID: 33622407)

- 18. SR Sripathi, MW Hu, MM Liu, **J Wan**, J Cheng, Y Duan, JL Mertz, KJ Wahlin, J Maruotti, CA Berlinicke, J Qian, DJ Zack (2021) Transcriptome Landscape of Epithelial to Mesenchymal Transition of Human Stem Cell-Derived Retinal Pigment Epithelium. *Investigative Ophthalmology & Visual Science* 62 (4), 1. (PMID: 33792620)
- 19. **J Wan**, H Dai, X Zhang, S Liu, Y Ling, A-K Somani, J Xie, J Han (2021) Distinct Transcriptomic Landscapes of Cutaneous Basal Cell Carcinomas and Squamous Cell Carcinomas. *Genes & Diseases* 8 (2), 181. (PMID: 33997165)
- 20. P Bhat-Nakshatri, H Gao, L Sheng, PC McGuire, X Xuei, J Wan, Y Liu, SK Althouse, A Colter, G Sandusky, AM Storniolo, H Nakshatri (2021) A single cell atlas of the healthy breast tissues reveals clinically relevant clusters of breast epithelial cells. <u>Cell Reports Medicine</u> 2 (3), 100219. (PMID: 33763657)
- 21. N Lin, J Liu, J Castle, **J Wan**, A Shendre, Y Liu, C Wang, C He (2021) Genome-wide DNA methylation profiling in human breast tissue by illumina TruSeq methyl capture EPIC sequencing and infinium methylationEPIC beadchip microarray. *Epigenetics* 16 (7), 754-769. (PMID: 33048617)
- 22. S Liu, JK Shen, S Fang, K Li, J Liu, L Yang, CD Hu, **J Wan** (2020) Genetic spectrum and distinct evolution patterns of SARS-CoV-2. *Frontiers in Microbiology* 11, 593548. (PMID: 33101264)
- 23. E Beketova, S Fang, J Owens, S Liu, X Chen, Q Zhang, A Asberry, X Deng, J Malola, J Huang, C Li, R Pili, B Elzey, T Ratliff, **J Wan**[†], CD Hu[†] (2020) Protein arginine methyltransferase 5 promotes androgen receptor transcription in a pICln-dependent manner in castration-resistant prostate cancer. *Cancer Research* 80 (22), 4904. (PMID: 32999000)
- 24. R Choudhury, J Beezley, B Davis, J Tomeck, S Gratzl, L Golzarri-Arroyo, J Wan, D Raftery, J Baumes, TM O'Connell (2020) Viime: Visualization and Integration of Metabolomics Experiments. <u>The Journal of Open Source Software</u> 5 (54), 2410. (PMID: 33768193)
- 25. N Marino, R German, X Rao, E Simpson, S Liu, **J Wan**, Y Liu, G Sandusky, M Jacobsen, M Stoval, S Cao, AMV Storniolo (2020) Upregulation of lipid metabolism genes in the breast prior to cancer diagnosis. *NPJ Breast Cancer* 6, 50 (PMID: 33083529).
- 26. J Liu, S Liu, H Gao, L Han, X Chu, Y Sheng, W Shou, Y Wang, Y Liu, **J Wan**[†], L Yang[†] (2020) Genome-wide studies reveal the essential and opposite roles of ARID1A in controlling human cardiogenesis and neurogenesis from pluripotent stem cells. *Genome Biology* 21(1):169. (PMID: 32646524)
- 27. S Dey, S Liu, TD Factora, S Taleb, P Riverahernandez, L Udari, X Zhong, **J Wan**, J Kota (2020) Global targetome analysis reveals critical role of miR-29a in pancreatic stellate cell mediated regulation of PDAC tumor microenvironment. <u>BMC Cancer</u> 20 (1), 651. (PMID: 32660466)
- 28. B Khambu, H Hong, S Liu, G Liu, X Chen, Z Dong, **J Wan**, XM Yin (2020) The HMGB1-RAGE axis modulates the growth of autophagy-deficient hepatic tumors. <u>Cell Death & Disease</u> 11 (5), 333. (PMID: 32382012)
- 29. D Xu, D Zhou, K Bum-Erdene, BJ Bailey, K Sishtla, S Liu, **J Wan**, UK Aryal, JA Lee, CD Wells, ML Fishel, TW Corson, KE Pollok, SO Meroueh (2020) Phenotypic Screening of

- Chemical Libraries Enriched by Molecular Docking to Multiple Targets Selected from Glioblastoma Genomic Data. *ACS Chemical Biology* 15 (6), 1424-1444. (PMID: 32243127)
- 30. JL Owens, E Beketova, S Liu, C Li, **J Wan**[†], CD Hu[†] (2020) PRMT5 cooperates with pICln to function as a master epigenetic activator of DNA double-strand break repair genes. *iScience* 23 (1): 100750. (PMID: 31884170)
- 31. J Wen, G Huang, S Liu, **J Wan**, X Wang, Y Zhu, W Kaliney, C Zhang, L Cheng, X Wen, X Lu (2020) Polymorphonuclear MDSCs are Enriched in the Stroma and Expanded in Metastases of Prostate Cancer. *Journal of Pathology: Clinical Research* 6 (3), 171. (PMID: 32149481)
- 32. S Dey, JJ Kwon, S Liu, GA Hodge, S Taleb, TA Zimmers, **J Wan**, J Kota (2020) miR-29a is repressed by MYC in pancreatic cancer and its restoration exhibits anti-tumorigenicity via downregulation of LOXL2. *Molecular Cancer Research* 18 (2), 311-323. (PMID: 31662451)
- 33. MM Xie, S Fang, Q Chen, H Liu, **J Wan**[†], AL Dent[†] (2019) Follicular Regulatory T Cells Inhibit the Development of Granzyme B-Expressing Follicular Helper T Cells. *JCI Insight* 4 (16): 128076. (PMID: 31434804)
- 34. J Xu, Y Liu, Y Li, H Wang, S Stewart, K Van der Jeught, P Agarwal, Y Zhang, S Liu, G Zhao, **J Wan**, Lu X[†], He X[†] (2019) Precise targeting of POLR2A as a therapeutic strategy for human triple negative breast cancer. *Nature Nanotechnology* 14 (4), 388-397. (PMID: 30804480)
- 35. AY Hsu, D Wang, S Liu, J Lu, R Syahirah, DA Bennin, A Huttenlocher, DM Umulis, **J Wan**, Q Deng (2019) Phenotypical microRNA screen reveals a noncanonical role of CDK2 in regulating neutrophil migration. *Proceedings of the National Academy of Sciences* 116 (37), 18561-18570. (PMID: 31451657)
- 36. Y Chen, C Yao, Y Teng, R Jiang, X Huang, S Liu, **J Wan**, H Broxmeyer[†], and G Bin[†] (2019) Phorbol ester induced ex vivo expansion of rigorously-defined phenotypic but not functional human cord blood hematopoietic stem cells: a cautionary tale demonstrating that phenotype does not always recapitulate stem cell function. *Leukemia* 33 (12): 2962-2966. (PMID: 31350528)
- 37. HG Kim, M Huang, Y Xin, Y Zhang, X Zhang, G Wang, S Liu, **J Wan**, AR Ahmadi, Z Sun, S Liangpunsakul, X Xiong, XC Dong (2019) The epigenetic regulator SIRT6 protects the liver from alcohol-induced tissue injury by reducing oxidative stress in mice. *Journal of Hepatology* 71 (5), 960-969. (PMID: 31295533)
- 38. C Zibetti, S Liu, **J Wan**, J Qian, S Blackshaw (2019) Epigenomic profiling of retinal progenitors reveals LHX2 is required for developmental regulation of open chromatin. <u>Communications Biology</u> 2 (1), 142.
- 39. AY Hsu, S Liu, R Syahirah, KA Brasseale, **J Wan**, Q Deng (2019) Inducible overexpression of zebrafish microRNA-722 suppresses chemotaxis of human neutrophil like cells. *Molecular immunology* 112, 206-214. (PMID: 31176200)
- 40. A Shinde, SD Hardy, D Kim, SS Akhand, MK Jolly, WH Wang, JC Anderson, RB Khodadadi, WS Brown, JT George, S Liu, J Wan, H Levine, CD Willey, CJ Krusemark, RL Geahlen, MK Wendt (2019) Spleen tyrosine kinase-mediated autophagy is required for epithelial-mesenchymal plasticity and metastasis in breast cancer. <u>Cancer Research</u> 79 (8), 1831-1843. (PMID: 30733195)

- 41. Y Jia, D Gu, **J Wan**, B Yu, X Zhang, E Chiorean, Y Wang, J Xie (2019) The Role of GLI-Sox2 signaling axis for gemcitabine resistance in pancreatic cancer. *Oncogene* 38 (10), 1764-1777. (PMID: 30382189)
- 42. A Cerra-Franco, S Liu, M Azar, K Shiue, S Freijie, J Hinton, CR Deig, D Edwards, NCEstabrookIII, SG Ellsworth, K Huang, K Diab, MP Langer, R Zellars, F Kong, **J Wan**, T Lautenschlaeger (2019) Predictors of Nodal and Metastatic Failure in Early Stage Non–small-cell Lung Cancer After Stereotactic Body Radiation Therapy. *Clinical Lung Cancer* 20 (3), 186-193. (PMID: 30711394)
- 43. O Oyinlade, S Wei, K Kammers, S Liu, S Wang, D Ma, Z Huang, J Qian, H Zhu, **J Wan**[†], S Xia[†] (2018) Analysis of KLF4 regulated genes in cancer cells reveals a role of DNA methylation in promoter-enhancer interactions. *Epigenetics* 13 (7), 751-768. (PMID: 30058478)
- 44. Y Liu, J Xu, H Choi, C Han, Y Fang, Y Li, K Jeught, H Xu, L Zhang, M Frieden, L Wang, H Eyvani, Y Sun, G Zhao, Y Zhang, S Liu, **J Wan**, C Huang, G Ji, X Lu, X He, X Zhang (2018) Targeting 17q23 amplicon to overcome the resistance to anti-HER2 therapy in HER2+ breast cancer. *Nature Communications* 9 (1), 4718. (PMID: 30413718)
- 45. X Huang, B Guo, S Liu, **J Wan**, H Broxmeyer (2018) Neutralizing negative epigenetic regulation by HDAC5 enhances human haematopoietic stem cell homing and engraftment. *Nature Communications* 9 (1), 2741. (PMID: 30013077)
- 46. A Sehdev, O Gbolahan, B Hancock, M Stanley, S Shahda, **J Wan**, H Wu, M Radovich, B O'Neill (2018) Germline and Somatic DNA Damage Repair Gene Mutations and Overall Survival in Metastatic Pancreatic Adenocarcinoma Patients Treated with FOLFIRINOX. *Clinical Cancer Research* 24 (24), 6204-6211. (PMID: 30131383)
- 47. Y Liu, H Xu, KV Jeught, Y Li, S Liu, L Zhang, Y Fang, X Zhang, M Radovich, BP Schneider, X He, C Huang, C Zhang, **J Wan**, G Ji, X Lu (2018) Somatic mutation of the cohesin complex subunit confers therapeutic vulnerabilities in cancer. *Journal of Clinical Investigation* 128 (7), 2951-2965. (PMID: 29649003)
- 48. EA Newman, DW Kim, **J Wan**, J Wang, J Qian, S Blackshaw (2018) Foxd1 is required for terminal differentiation of anterior hypothalamic neuronal subtypes. <u>Developmental Biology</u> 439(2):102-111. (PMID: 29679559)
- 49. JW Foster, V Shinde, US Soiberman, G Sathe, S Liu, **J Wan**, J Qian, Y Dauoud, A Pandey, AS Jun, S Chakravarti (2018) Integrated Stress Response and Decreased ECM in Cultured Stromal Cells From Keratoconus Corneas. *Investigative Ophthalmology & Visual Science* 59 (7), 2977-2986. (PMID: 30029277)
- 50. M Padua, P Bhat-Nakshartri, M Anjanappa, M Prasad, Y Hao, X Rao, S Liu, **J Wan**, Y Liu, K McELyea, M Jacobsen, G Sandusky, S Althouse, S Perkins, H Nakshatri (2018) Dependence receptor UNC5A restricts luminal to basal breast cancer plasticity and metastasis. <u>Breast Cancer Research</u> 20 (1), 35. (PMID: 29720215)
- 51. Q Cai, Q Fan, K. Nephew, S Liu, **J Wan**, Y Xu (2018) Changes in mRNA/protein expression and signaling pathways in in vivo passaged mouse ovarian cancer cells. *PLoS One* 13 (6), e0197404. (PMID: 29927933)

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- 56. G Wang, X Luo, J Wang, **J Wan**, S Xia, H Zhu, J Qian, Y Wang (2018) MeDReaders: a database for transcription factors that bind to methylated DNA. *Nucleic Acids Research* 46 (D1), D146-D151 (PMID: 29145608).
- 57. **J Wan*** (*co-first author), Y Su*, Q Song*, B Tung, O Oyinlade, S Liu, M Ying, G Ming, H Song, J Qian, H Zhu, S Xia (2017) Methylated cis-regulatory elements mediate KLF4-dependent gene transactivation and cell migration. <u>eLife</u> 6, e20068. (PMID: 28553926)
- 58. P Shang, M Valapala, R Grebe, S Hose, S Ghosh, IA Bhutto, JT Handa, GA Lutty, L Lu, J Wan, J Qian, Y Sergeev, R Puertollano, JS Zigler, GT Xu, D Sinha (2017) The amino acid transporter SLC36A4 regulates the amino acid pool in retinal pigmented epithelial cells and mediates the mechanistic target of rapamycin, complex 1 signaling. *Aging Cell* 16 (2), 349-359. (PMID: 28083894)
- 59. Z Yang, Y Hou, T Hao, HS Rho, **J Wan**, Y Luan, X Gao, J Yao, A Pan, Z Xie, J Qian, W Liao, H Zhu, X Zhou (2017) A human proteome array approach to identifying key host proteins targeted by Toxoplasma kinase ROP18. *Molecular & Cellular Proteomics* 16 (3), 469-484. (PMID: 28087594)
- 60. Y Zhao, F Wang, S Chen, **J Wan**, G Wang (2017) Methods of MicroRNA Promoter Prediction and Transcription Factor Mediated Regulatory Network. <u>BioMed Research International</u> 2017:8. (PMID: 28656148)
- 61. Z Li, J Liu, J Li, Y Kong, G Sandusky, X Rao, Y Liu, **J Wan**, X Liu (2017) Polo-like kinase 1 (Plk1) overexpression enhances ionizing radiation-induced cancer formation in mice. *Journal of Biological Chemistry* 292 (42), 17461. (PMID: 28900036)
- 62. S Liu, C Zibetti, **J Wan**, G Wang, S Blackshaw, J Qian (2017) Assessing the model transferability for prediction of transcription factor binding sites based on chromatin accessibility. *BMC Bioinformatics* 18 (1), 355. (PMID: 28750606)

Articles published before 2017:

- 63. Y Zeng, B Yao, J Shin, L Lin, N Kim, Q Song, S Liu, Y Su, JU Guo, L Huang, **J Wan**, H Wu, J Qian, X Cheng, H Zhu, G Ming, P Jin, H Song (2016) Lin28A Binds Active Promoters and Recruits Tet1 to Regulate Gene Expression. *Molecular Cell* 61, 153-160.
- 64. T Masuda, **J Wan**, A Yerrabelli, C Berlinicke, A Kallman, J Qian, DJ Zack (2016) Off Target, but Sequence-Specific, shRNA-Associated Trans-Activation of Promoter Reporters in Transient Transfection Assays. *PLoS One* 11 (12), e0167867.
- 65. DR Kolson, **J Wan**, J Wu, M Dehoff, AN Brandebura, J Qian, PH Mathers, GA Spirou (2016) Temporal Patterns of Gene Expression During Calyx of Held Development. <u>Developmental neurobiology</u> 76, 166-189.
- 66. **J Wan**, VF Oliver, G Wang, H Zhu, DJ Zack, SL Merbs, J Qian (2015) Characterization of tissue-specific differential DNA methylation suggests distinct modes of positive and negative gene expression regulation. *BMC Genomics* 16 (1), 49.
- 67. G Elachouri, I Lee-Rivera, E Clérin, M Argentini, R Fridlich, F Blond, V Ferracane, Y Yang, W Raffelsberger, **J Wan**, J Bennett, J-A Sahel, DJ Zack, Thierry Léveillard (2015) Thioredoxin rod-derived cone viability factor protects against photooxidative retinal damage. *Free Radical Biology and Medicine* 81, 22-29.
- 68. J Maruotti, SR Sripathi, K Bharti, J Fuller, KJ Wahlin, V Ranganathan, VM Sluch, CA Berlinicke, J Davis, C Kim, L Zhao, **J Wan**, J Qian, B Corneo, S Temple, R Dubey, BZ Olenyuk, I Bhutto, GA Lutty, DJ Zack (2015) Small-molecule–directed, efficient generation of retinal pigment epithelium from human pluripotent stem cells. *Proceedings of the National Academy of Sciences* 112, 10950-10955.
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- 70. T Masuda*, Karl Wahlin*, **J Wan*** (*co-first author), J Hu, J Maruotti, X Yang, J Iacovelli, N Wolkow, R Kist, JL. Dunaief, J Qian, DJ. Zack, N Esumi (2014) Transcription Factor SOX9 Plays a Key Role in the Regulation of Visual Cycle Gene Expression in the Retinal Pigment Epithelium. *The Journal of Biological Chemistry* 34 (46), 15356-15368.
- 71. M Cano, L Wang, **J Wan**, BP Barnett, K Ebrahimi, J Qian, JT Handa (2014) Oxidative Stress Induces Mitochondrial Dysfunction and a Protective Unfolded Protein Response in RPE cells. *Free Radical Biology and Medicine* 69, 1-14.
- 72. T Masuda, X Zhang, C Berlinicke, **J Wan**, A Yerrabelli, EA Conner, S Kjellstrom, R Bush, SS Thorgeirsson, A Swaroop, S Chen, DJ Zack (2014) The Transcription Factor GTF2IRD1 Regulates the Topology and Function of Photoreceptors by Modulating Photoreceptor Gene Expression across the Retina. *The Journal of Neuroscience* 34, 15356-15368.
- 73. **J Wan**, VF Oliver, H Zhu, D Zack, J Qian, SL Merbs (2013) Integrative analysis of tissue-specific methylation and alternative splicing identifies conserved transcription factor binding motifs. *Nucleic Acids Research* 41 (18), 8503-8514.
- 74. S Hu*, **J Wan*** (*co-first author), Y Su*, Q Song, Y Zeng, HN Nguyen, J Shin, E Cox, HS Rho, C Woodard, S Xia, S Liu, H Lu, G Ming, H Wade, H Song, J Qian, H Zhu (2013) DNA methylation presents distinct binding sites for human transcription factors. *eLife* 2013 (2),

- e00726. (Highlighted by the Insight paper "Making the most of methylation" <u>eLife</u> 2013 (2), e01387).
- 75. VF Oliver, **J Wan**, S Agarwal, DJ Zack, J Qian, SL Merbs (2013) A novel methyl-binding domain protein enrichment method for identifying genome-wide tissue-specific DNA methylation from nanogram DNA samples. *Epigenetics & Chromatin* 6 (1), 1-11.
- 76. CL Woodard, CR Goodwin, **J Wan**, S Xia, R Newman, J Hu, J Zhang, SD Hayward, J Qian, J Laterra, H Zhu (2013) Profiling the dynamics of a human phosphorylome reveals new components in HGF/c-Met signaling. *PLoS One* 8 (9), e72671.
- 77. A Joushaghani, R Iyer, JKS Poon, JS Aitchison, CM de Sterke, **J Wan**, MM Dignam (2012) Generalized Exact Dynamic Localization in Curved Coupled Optical Waveguide Arrays. *Physical Review Letters* 109 (10), 103901.
- 78. SL Merbs, MA Khan, L Hackler, VF Oliver, **J Wan**, J Qian, DJ Zack (2012) Cell-Specific DNA Methylation Patterns of Retina-specific Genes. *PLoS One* 7, e32602.
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- 80. YR Ren, R Chaerkady, S Hu, **J Wan**, J Qian, H Zhu, A Pandey, S Kern (2012) Unbiased discovery of interactions at a control locus driving expression of the cancer-specific therapeutic and diagnostic target, mesothelin. *Journal of Proteome Research* 11 (11), 5301-5310.
- 81. C Woodard, M Shamay, G Liao, J Zhu, AN Ng, R Li, R Newman, HS Rho, J Hu, **J Wan**, J Qian, H Zhu, SD Hayward (2012) Phosphorylation of the Chromatin Binding Domain of KSHV LANA. *PLoS Pathogens* 8 (10), e1002972.
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- 83. D Zheng*, **J Wan*** (*co-first author), Y Cho*, L Wang, CJ Chiou, S Pai, C Woodard, J Zhu, G Liao, O Martinez-Maza, J Qian, H Zhu, GS Hayward, RF Ambinder, SD Hayward (2011) Comparison of Humeral Immune Responses to Epstein-Barr Virus and Kaposi's Sarcoma Associated Herpesvirus Using a Viral Proteome Microarray. *Journal of Infectious Diseases* 204, 1683-1691.
- 84. L Hacker*, **J Wan*** (*co-first author), A Swaroop, J Qian, D Zack (2010) MicroRNA profile of the developing mouse retina. *Investigative Ophthalmology & Visual Science* 51, 1823-1831.
- 85. J Hu, **J Wan**, L Hackler, D Zack, J Qian (2010) Computational analysis of tissue specific gene networks: application to murine retinal functional studies. *Bioinformatics* 26, 2289-2297.
- 86. **J Wan**, J Lin, D Zack, J Qian (2009) Relating periodicity of nucleosome organization and gene regulation. *Bioinformatics* 25, 1782-1788.

- 87. A Joushaghani, R Iyer, JKS Poon, JS Aitchison, CM de Sterke, **J Wan,** MM Dignam (2009) Quasi-Bloch Oscillations in Curved Coupled Optical Waveguides. *Physical Review Letters* 103, 143903.
- 88. Y Lin, J Lu, J Zhang, W Walter, W Dang, **J Wan**, S Tao, J Qian, Y Zhao, JD Boeke, SL Berger, H Zhu (2009) Protein Acetylation Microarray Reveals that NuA4 Controls Key Metabolic Target Regulating Gluconeogenesis. *Cell* 136, 1073-1084.
- 89. R Iyer, S Aitchison, **J Wan**, MM Dignam, CM de Sterke (2007) Exact Dynamic Localization in Curved AlGaAs Optical Waveguide Arrays. *Optics Express* 15, 3212-3233.
- 90. **J Wan**, M Laforest, CM de Sterke, MM Dignam (2005) Optical filters based on dynamic localization in curved coupled optical waveguides. *Optics Communications* 247, 353-365.
- 91. **J Wan**, P Domachuk, MM Dignam, CM de Sterke (2004) Electron dynamics and dynamic localization in asymmetric periodic potentials. *Physical Review B* 69, 113304-4.
- 92. **J Wan**, CM de Sterke, MM Dignam (2004) Dynamic localization and quasi-Bloch oscillations in general periodic ac-dc electric fields. *Physical Review B* 70, 125311-9.
- 93. P Domachuk, CM de Sterke, **J Wan**, MM Dignam (2002) Dynamic localization in continuous ac electric fields. *Physical Review B* 66, 165313-10.
- 94. **J Wan**, RQ Zhang, HF Cheung (2002) Energetics of Ti atom diffusion in diamond film. <u>Computational Materials Science</u> 23, 73.
- 95. RQ Zhang, SF Lo, **J Wan**, DK Yu, ST Lee (2002) Characteristics of Boron and Nitrogen species on Aluminum surface. *Computational Materials Science* 23, 38.
- 96. C Zhang, F Qiao, **J Wan**, J Zi (2000) Enlargement of nontransmission frequency range in photonic crystals by using multiple heterostructures. *Journal of Applied Physics* 87, 3174.
- 97. F Qiao, C Zhang, **J Wan**, J Zi (2000) Photonic quantum-well structures: multiple channeled filtering phenomena. *Applied Physics Letters* 77, 3698.
- 98. J Zi, **J Wan**, C Zhang (1998) Large frequency range of negligible transmission in 1D photonic quantum well structures. *Applied Physics Letters* 73, 2084.

SELECTED TALKS/POSTERS/ABSTRACTS (AFTER 2017)

Purdue University, West Lafayette IN

Invited talks Precision Medicine, University of Texas School of Biomedical Informatics 2021 Center for Biomedical Informatics at Loyola University Chicago 2021 "Philips Institute Seminar Series" at Virginia Commonwealth University (VCU) 2021 Genomics Seminar Series, University of South Florida 2021 BIOKDD 2020, 19th International Workshop on Data Mining in Bioinformatics 2020 Genomics Seminar Series, University of Wisconsin at Madison 2020 Dental School, Indiana University School of Medicine, Indianapolis IN 2021

2019

•	The Biomarkers and Computational Biology Meeting at IUSM	2019
•	Regenstrief Institute, Indianapolis IN	2018
•	Walther Cancer Foundation Annual Symposium, South bend IN	2018
•	Hematopoiesis & Hematologic Malignancies Research Program, Indiana University Cancer Center, Indianapolis IN	sity Simon 2018
•	Tumor Microenvironment & Metastasis Research Program, Indiana University S Cancer Center, Indianapolis IN	imon 2018
•	Purdue University Institute for Drug Discovery, West Lafayette IN	2017
•	Harper Cancer Center, University of Notre Dame, South bend IN	2017
•	Program Retreat of Experimental & Developmental Therapeutics, Indiana Unive Cancer Center, Indianapolis IN	rsity Simon 2017
•	BioHealth Informatics Colloquia Series, Indiana University School of Informatic Computing, Indianapolis IN	es and 2017
•	Walther Cancer Foundation Annual Symposium, West Lafayette IN	2016

Selected conference presentations

- X Zhong, A Narasimhan, AR Young, LM Silverman, J Liu, S Liu, EH Doud, J Wan, Y Liu, AL Mosley, LG Koniaris, TA Zimmers "Sex differences in pancreatic cancer cachexia manifestations and mechanisms in mice and humans: Role of Activin" AACR Annual Meeting
 Apr 9-14, 2021
- A Narasimhan, X Zhong, J Wan, S Liu, LG Koniaris, TA Zimmers "Skeletal muscle transcriptome profiling of human pancreatic cancer cachexia: Single largest study in cachexia" AACR Annual Meeting
 Apr 9-14, 2021
- H Jiang, A Ramadan, B Laurine, S-W Tu, H Liu, C Rowan, X Liu, H Wu, J Wan and S Paczesny "IL-33 Therapy Prevents Acute Lung Injury after Transplantation Via IL-9-Producing Type 2 Innate Lymphoid Cells Induction" 61st American Society of Hematology Annual Meeting & Exposition, Orlando, FL USA
- MR Kelley, S Shahda, NJ Lakhani, B O'Neil, DW Rasco, J Wan, AL Mosley, H Liu and RA Messmann "A phase I study of the APE1 protein inhibitor APX3330 in patients with advanced solid tumors" AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics, Boston, MA USA
 Oct 26-30, 2019
- SR Sripathi, MW Hu, J Cheng, M Liu, Y Duan, J Wan, X Yang, JL Mertz, C Berlinicke, J Maruotti, KJ Wahlin, N Esumi, J Qian, and DJ Zack "Inhibition of NF-kB signaling modulates epithelial to mesenchymal transition in human stem cell-derived retinal pigment epithelial cells" The Association for Research in Vision & Ophthalmology (ARVO) 2019, Vancouver, BC Canada
 Apr 28-May 2, 2019
- S Dey, JJ Kwon, S Liu, T Factoria, GA Hodge, J Wan and J Kota "Mechanistic role of miR-29 in pancreatic ductal adenocarcinoma progression" AACR Annual Meeting 2019, Atlanta, GA USA
 Mar 29-Apr 3, 2019

- A Cerra-Franco, S Liu, M Azar, K Shiue, NC Estabrook III, K Diab, FM Kong, J Wan and T Lautenschlaeger "Predictors of Nodal and Metastatic Failure in Early Stage Non-Small Cell Lung Cancer after Stereotactic Body Radiation Therapy" Annual Meeting of the American Society for Radiation Oncology (ASTRO), San Antonio, TX USA
- A Sehdev, O Gbolahan, BA Hancock, M Stanley, S Shahda, J Wan, HH Wu, M Radovich, and B O'Neil "Germline and Somatic DNA Damage Repair Gene Mutations and Overall Survival in Metastatic Pancreatic Adenocarcinoma Patients Treated with FOLFIRINOX" European Society for Medical Oncology (ESMO) 2018 Annual Congress, Munich, Germany Oct 19-23, 2018
- FM S Kong, W Wang, G Durm, J Wan, J Jin, W Pi, C Hu, MP Langer, T Lautenschlaeger, S Paczesny, TJ Birdas, and NH Hanna "The effect of thoracic radiation on overall survival and their association with systemic immune therapy in stage IV NSCLC: Findings from the National Cancer Database" American Society of Clinical Oncology (ASCO) Annual Meeting, Chicago, IL USA
 Jun 1-5, 2018
- B Kumar, M Prasad, M Anjanappa, P Nakshatri, N Marino, AM Storniolo, X Rao, S Liu, J Wan, Y Liu and H Nakshatri "Breast epithelial cell lines from normal breast with luminal and intrinsic subtypes -enriched gene expression document inter-individual differences in differentiation cascade" AACR Annual Meeting 2018, Chicago, IL USA Apr 14-18, 2018
- N Marino, R German, ML. Johnson, X Rao, X Xuei, J Wan and AM V Storniolo
 "Transcriptional changes in breast cancer initiation" AACR Annual Meeting 2018, Chicago, IL USA
 Apr 14-18, 2018

MENTORING EXPERIENCE

Advisor

- Shuyi Fang (Ph.D. student), Department of BioHealth Informatics, School of Informatics and Computing, IUPUI 2017 present
- Kailing Li (Ph.D. student), Department of BioHealth Informatics, School of Informatics and Computing, IUPUI 2019 present
- Arun Kumar Boddapati (summer student), Department of BioHealth Informatics, School of Informatics and Computing, IUPUI
 2017
- Yi Li (summer student), Department of Chemistry, Indiana University 2017
- Michael Wang (intern), Carmel High School, Carmel IN 2019
- Alex Lu (intern), Park Tudor School, Indianapolis IN
- Audrey Wang (intern), Park Tudor School, Indianapolis IN 2020

Mentor committee member

Alan Hsu (Ph.D. student), Department of Biological Sciences, Purdue University 2018 – 20 Fahim Syed (Ph.D. student), Department of Microbiology, IUSM 2018 – present Duojiao Chen (Ph.D. student), Department of BioHealth Informatics, School of Informatics and Computing, IUPUI 2018 – present Ed Ronald Simpson (Ph.D. student), Department of BioHealth Informatics, School of Informatics and Computing, IUPUI 2018 - presentChuanpeng Dong (Ph.D. student), Department of BioHealth Informatics, School of Informatics and Computing, IUPUI 2018 – present • Enze Liu (Ph.D. student), Department of BioHealth Informatics, School of Informatics and Computing, IUPUI 2019 - 2021• Paige Dausinas (Ph.D. student), Department of Cellular and Integrative Physiology, Indiana 2020 - presentUniversity School of Medicine Deepak Kumar Lakshmipathi (M.S. student), Department of BioHealth Informatics, School of Informatics and Computing, IUPUI 2019 - 2019Sunneta Modekurty (M.S. student), Department of BioHealth Informatics, School of Informatics and Computing, IUPUI 2019 - 2020Supervisor as C³B director shared by IUSCCC and PUCCR 2016 - 2017Dr. Yan Dong Dr. Nadia Atallah 2016 – present **Guanglong Jiang** 2016 – present Dr. Xi Rao 2017 - 2017Hao Yu 2017 - 2018Dr. Sheng Liu 2017 - presentEd Ronald Simpson 2017 – present

COURSES TAUGHT

Dr. Sagar Utturkar

• Dr. Yucheng Zhang

Asha Jacob Jannu

IUSM G788 "Introduction to Next Generation Sequencing"

• Co-instructor 2017/2018/2019/2021

IUSM G848 "Bioinformatics, Genomics, Proteomics and Systems Biology"

• Lecturer 2018/2019/2020/2021

2017 - present

2021 – present

2020 - 2021

IUSM Q613 "Molecular and Biochemical Genetics Lab" Lecturer 2018/2019/2020/2021 IUSM Workshop "Molecular Biology" Lecturer 2019 IU School of Public Health "Overview of Precision Health" Lecturer 2020 Purdue University Workshop "Big Data Training for Cancer Research" Co-instructor 2020 IUSM 10-week Short Course "Bioinformatics for Biologist (B4B)" Co-instructor 2020