

JUN WAN, Ph.D.

Assistant Professor (tenure track) of Department of Medical & Molecular Genetics
Director of Collaborative Core for Cancer Bioinformatics (C³B) shared by Indiana University Simon Comprehensive Cancer Center (IUSCCC) and Purdue University Center for Cancer Research (PCCCR)
Core Member of Center for Computational Biology and Bioinformatics
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EDUCATION & TRAINING

2007 – 2011	Postdoctoral fellow, Wilmer Institute, Johns Hopkins University School of Medicine, Baltimore MD USA
2006 – 2007	Postdoctoral fellow, University of Victoria, Victoria, British Columbia, Canada
2001 – 2006	Ph.D., Computational Physics, Department of Physics, Queen's University, Kingston, ON Canada
1996 – 99/2000 – 01	M.S., Condensed Matter Physics, Department of Physics, Fudan University, Shanghai China
1987 – 1991	B.S., Applied Physics, Department of Applied Physics, Shanghai Jiaotong University, Shanghai China

PROFESSIONAL APPOINTMENT

2017 – present	Adjunct Assistant Professor of Bioinformatics, Department of BioHealth Informatics, Indiana University School of Informatics and Computing at IUPUI, Indianapolis IN USA
2016 – present	Director of Collaborative Core for Cancer Bioinformatics (C ³ B) shared by NCI-comprehensive cancer center, Indiana University Melvin & Bren Simon Cancer Center, and Purdue University Center for Cancer Research, USA
2016 – present	Assistant Professor (tenure track), Department of Medical and Molecular Genetics, Indiana University School of Medicine, Indianapolis IN USA
2015 – 2016	Research Associate (non-tenure track faculty), Johns Hopkins University School of Medicine, Baltimore MD USA
2011 – 2015	Senior Bioinformatician, Wilmer Institute, Johns Hopkins University School of Medicine, Baltimore MD USA
2007 – 2011	Postdoctoral fellow, Wilmer Institute, Johns Hopkins University School of Medicine, Baltimore MD USA
2006 – 2007	Postdoctoral fellow, University of Victoria, Victoria, British Columbia, Canada
2001 – 2005	Research Assistant, Department of Physics, Queen's University, Kingston ON Canada
2001 – 2005	Teaching Assistant, Department of Physics, Queen's University, Kingston ON Canada
1999 – 2000	Research Assistant I (<i>full time</i>), Department of Physics and Materials Science, City University of Hong Kong, Hong Kong China

AWARDS & HONORS

2004 – 2005	Ontario Graduate Scholarship, ON Canada
2003 – 2005	Carl Reinhardt Fellowship, Queen's University, Kingston ON Canada

2002 – 2003 Queen Elizabeth II Graduate Scholarship in Science and Technology, ON Canada
2001 – 2002 Carl Reinhardt Fellowship, Queen’s University, Kingston ON Canada

FUNDING & GRANT SUPPORTS

Active Grants

- NIH/NCI U01 CA240346 Yang (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
Role: IU Site PI
- NIH/NCI R01 CA248033 Lu (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
Role: IU Site PI
- NIH/NCI P30 CA082709-20 Loehrer (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
Role: Module PI
- NIH U54 AG065181 Palkowitz (PI) 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
Role: Co-I
- NIH/NCI R25 CA233429 Zhang (PI) 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.
Total cost: \$19,308
Role: Co-I
- 1R01DK121925-01A1 Dong (PI) 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
Role: Co-I
- DOD W81XWH2010332/203995IUSM Lu (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

Role: IU Site PI

DOD W81XWH2010312/203994IUSM Lu (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

Role: IU Site PI

NIH/NCI R01CA231267-03 Fehrenbacher (PI) 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

Role: Co-I

NIH R01 HL147871 Yang (PI) 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

Role: Co-I

NIH R01 CA225108 Yan (PI) 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

Role: Co-I

NIH R21AG071269-01 Brutkiewicz (PI) 09/15/20 – 08/31/22

Title: Analysis of the MR1/MAIT cell axis in a murine model of Alzheimer's disease

The goal of the study 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 cost: \$435,875

Role: Co-I

AHA Transformational Project Award Yang (PI) 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

Role: Co-I

American Cancer Society Kota (PI) 07/01/18 – 06/30/22

Title: Role of microRNA-29 in pancreatic cancer tumor-stromal biology

The goals of the studies are 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

Role: Co-I

IU CCBB Pilot Award

Yang & Wan (MPI)

12/01/20 – 11/30/21

Title: Determining the molecular mechanisms of SARS-CoV-2 caused heart dysfunctions

The goal is to test our hypothesis that SARS-CoV-2 protein Nsp6 disrupts ATP synthesis in cardiac muscle cells which leads to cardiac dysfunction and arrhythmia.

Total cost: \$12,000

Role: MPI

Completed Grants

Walther Cancer Foundation

Ratliff (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

Role: IU Site co-PI

Walther Cancer Foundation

Loehrer (PI)

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

Role: Co-I

NIH SBIR

Kitware, Inc. (PI)

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

Role: Co-I

PEER-REVIEWED RESEARCH PUBLICATIONS

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

Peer-reviewed Articles Published After 2017 As An Independent PI (†co-corresponding author)

1. S Fang, K Li, JK Shen, S Liu, J Liu, L Yang, CD Hu, **J Wan** (2020) GESS: A database of Global Evaluation of SARS-CoV-2 Sequences. *Nucleic Acids Research* (in press).
2. 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, 2390 (PMC7545136).
3. 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), 4904-4917 (PMID: 32999000).

4. 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)
5. 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. *The Journal of Open Source Software* (in press).
6. 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* (in press).
7. G Song, G Wang, X Luo, Y Cheng, Q Song, **J Wan**, C Moore, H Song, P Jin, J Qian, H Zhu (2020) An All-to-All Approach to the Identification of Sequence-Specific Readers for Epigenetic DNA Modifications on Cytosine. *Nature Communications* (Accepted for Publication).
8. 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 (2020) A single cell atlas of the healthy breast tissues reveal clinically relevant clusters of breast epithelial cells. *Cell Reports Medicine* (Accepted for Publication).
9. N Lin, J Liu, J Castle, **J Wan**, A Shendre, Y Liu, C Wang, C He (2020) Genome-wide DNA methylation profiling in human breast tissue by illumina TruSeq methyl capture EPIC sequencing and infinium methylationEPIC beadchip microarray. *Epigenetics* (in press).
10. S Dey, S Liu, TD Factor, 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. *BMC Cancer* (in press).
11. 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. *Cell Death & Disease* 11 (5), 333. (PMID: 32382012)
12. 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)
13. 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)
14. D Xu, M Yang, M Capitano, B Guo, S Liu, **J Wan**, H Broxmeyer, X Huang (2020) Pharmacological activation of nitric oxide signaling promotes human hematopoietic stem cell homing and engraftment. *Leukemia* (in print). (PMID: 32127640)
15. 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* (in print). (PMID: 32149481)
16. 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)
17. 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)
18. **J Wan**, H Dai, X Zhang, S Liu, Y Ling, A-K Somani, J Xie, J Han (2019) Distinct Transcriptomic Landscapes of Cutaneous Basal Cell Carcinomas and Squamous Cell Carcinomas. *Genes & Diseases* (in print).
19. 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)

20. 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)
21. 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)
22. 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)
23. 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. *Communications Biology* 2 (1), 142.
24. AY Hsu, S Liu, R Syahirah, KA Basseale, **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)
25. 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. *Cancer Research* 79 (8), 1831-1843. (PMID: 30733195)
26. 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)
27. 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)
28. 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)
29. 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)
30. 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)
31. 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)
32. 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)
33. EA Newman, DW Kim, **J Wan**, J Wang, J Qian, S Blackshaw (2018) Foxd1 is required for terminal differentiation of anterior hypothalamic neuronal subtypes. *Developmental Biology* 439(2):102-111. (PMID: 29679559)
34. 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)

35. M Padua, P Bhat-Nakshatri, 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. *Breast Cancer Research* 20 (1), 35. (PMID: 29720215)
36. 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)
37. O Oyinlade, S Wei, B Lal, J Laterra, H Zhu, CR Goodwin, S Wang, D Ma, **J Wan**, S Xia (2018) Targeting UDP- α -d-glucose 6-dehydrogenase inhibits glioblastoma growth and migration. *Oncogene* 37 (20), 2615-2629. (PMID: 29479058)
38. A Cerra-Franco Shiue, R Shapiro, N Estabrook, S Althouse, S Liu, **J Wan**, Y Zang, N Agrawal, C Zhang, C DesRosiers, G Bartlett, M Ewing, M Langer, G Watson, R Zellars, T Lautenschlaeger (2018) Histology, tumor volume, and radiation dose predict outcomes in non-small cell lung cancer patients after stereotactic ablative radiotherapy. *Journal of Thoracic Oncology* 13 (10), 1549-1559. (PMID: 29959060)
39. B Kumar, M Prasad, P Bhat-Nakshatri, M Anjanappa, M Kalra, N Marino, AM Storniolo, X Rao, S Liu, **J Wan**, Y Liu, H Nakshatri (2018) Normal breast-derived epithelial cells with luminal and intrinsic subtype-enriched gene expression document inter-individual differences in their differentiation cascade. *Cancer Research* 78 (17), 5107-5123. (PMID: 29997232)
40. A Filley, M Henriquez, T Bhowmik, BN Tewari, X Rao, **J Wan**, M Miller, Y Liu, RT Bentley, M Dey (2018) Immunologic and Gene Expression Profiles of Spontaneous Canine Glioma. *Journal of Neuro-Oncology* 137 (3), 469. (PMID: 29330750)
41. 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).
42. **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. *eLife* 6, e20068. (PMID: 28553926)
43. 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)
44. 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)
45. Y Zhao, F Wang, S Chen, **J Wan**, G Wang (2017) Methods of MicroRNA Promoter Prediction and Transcription Factor Mediated Regulatory Network. *BioMed Research International* 2017:8. (PMID: 28656148)
46. 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)
47. 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)

Peer-reviewed Articles Published Before 2017:

48. 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.
49. 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.

50. 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. *Developmental neurobiology* 76, 166-189.
51. **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.
52. 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 Lévillard (2015) Thioredoxin rod-derived cone viability factor protects against photooxidative retinal damage. *Free Radical Biology and Medicine* 81, 22-29.
53. 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 Luty, 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.
54. R Li, G Liao, RS Nirujogi, SM Pinto, PG Shaw, T Huang, **J Wan**, J Qian, H Gowda, X Wu, D Lv, K Zhang, SS Manda, A Pandey, SD Hayward (2015) Phosphoproteomic Profiling Reveals Epstein-Barr Virus Protein Kinase Integration of DNA Damage Response and Mitotic Signaling. *PLoS Pathogens* 11, e1005346.
55. 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.
56. 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.
57. 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.
58. **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.
59. 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” eLife 2013 (2), e01387**).
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75. **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.
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77. **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.
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79. **J Wan**, RQ Zhang, HF Cheung (2002) Energetics of Ti atom diffusion in diamond film. *Computational Materials Science* 23, 73.
80. 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.
81. 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.
82. F Qiao, C Zhang, **J Wan**, J Zi (2000) Photonic quantum-well structures: multiple channeled filtering phenomena. *Applied Physics Letters* 77, 3698.
83. J Zi, **J Wan**, C Zhang (1998) Large frequency range of negligible transmission in 1D photonic quantum well structures. *Applied Physics Letters* 73, 2084.

CONFERENCE PRESENTATION/POSTER/ABSTRACTS (after 2017)

Invited Talks

- 2021** “Decoding SARS-CoV-2 genome”, Genomics Seminar Series, University of South Florida (Jan. 12).
2021 “Genetic spectrum and distinct evolution patterns of SARS-CoV-2”, Seminar in Precision Medicine, University of Texas School of Biomedical Informatics.

- 2020** “Dissecting Roles of ARID1A in Controlling Human Cardiogenesis and Neurogenesis from Pluripotent Stem Cells”, Genomics Seminar Series, University of Wisconsin at Madison (postponed to 2021 due to COVID-19).
- 2020** “Genetic spectrum and distinct evolution patterns of SARS-CoV-2”, BIOKDD 2020 (19th International Workshop on Data Mining in Bioinformatics).
- 2019** “Dissect functional interactions between methylated DNA sequences and transcription factors”, Purdue University, West Lafayette IN.
- 2019** “Functional modulation of DNA methylation on transcription factor binding activities” The Biomarkers and Computational Biology Meeting at IUSM.
- 2018** “Introduction to Genomics and Bioinformatics”, Regenstrief Institute, Indianapolis IN.
- 2018** “The Collaborative Core for Cancer Bioinformatics: Past, Present and Future”, Walther Cancer Foundation Annual Symposium, South bend IN.
- 2017** “KLF4 acts as DNA methylation reader to drive gene activation in glioblastoma”, Purdue University Institute for Drug Discovery, West Lafayette IN.
- 2017** “Methyl CpG-dependent KLF4 binding activates genes in cell migration”, Harper Cancer Center at University of Notre Dame, South bend IN.
- 2017** “A Reinterpretation of Role of DNA Methylation in Gene Regulation”, Indiana University School of Informatics and Computing, Indianapolis IN.
- 2016** “Overview of Collaborative Core for Cancer Bioinformatics”, Walther Cancer Foundation Annual Symposium, West Lafayette IN.

Selected Conference Presentations

- 2019** “IL-33 Therapy Prevents Acute Lung Injury after Transplantation Via IL-9-Producing Type 2 Innate Lymphoid Cells Induction” H Jiang, A Ramadan, B Laurine, S-W Tu, H Liu, C Rowan, X Liu, H Wu, J Wan and S Paczesny. 61st American Society of Hematology Annual Meeting & Exposition; Dec 7-10, 2019; Orlando, Florida USA.
- 2019** “A phase I study of the APE1 protein inhibitor APX3330 in patients with advanced solid tumors” MR Kelley, S Shahda, NJ Lakhani, B O'Neil, DW Rasco, J Wan, AL Mosley, H Liu and RA Messmann. AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics; Oct 26-30, 2019; Boston, MA USA.
- 2019** “Inhibition of NF- κ B signaling modulates epithelial to mesenchymal transition in human stem cell-derived retinal pigment epithelial cells” 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. The Association for Research in Vision & Ophthalmology (ARVO) 2019; Apr 28-May 2, 2019; Vancouver, BC Canada.
- 2019** “Mechanistic role of miR-29 in pancreatic ductal adenocarcinoma progression” S Dey, JJ Kwon, S Liu, T Factoria, GA Hodge, J Wan and J Kota. AACR Annual Meeting 2019; Mar 29-Apr 3, 2019; Atlanta, GA USA.
- 2018** “Predictors of Nodal and Metastatic Failure in Early Stage Non-Small Cell Lung Cancer after Stereotactic Body Radiation Therapy” A Cerra-Franco, S Liu, M Azar, K Shiue, NC Estabrook III, K Diab, FM Kong, J Wan and T Lautenschlaeger. Annual Meeting of the American Society for Radiation Oncology (ASTRO); Oct 21-24, 2018; San Antonio, TX USA.
- 2018** “Germline and Somatic DNA Damage Repair Gene Mutations and Overall Survival in Metastatic Pancreatic Adenocarcinoma Patients Treated with FOLFIRINOX” A Sehdev, O Gbolahan, BA Hancock, M Stanley, S Shahda, J Wan, HH Wu, M Radovich, and B O'Neil. European Society for Medical Oncology (ESMO) 2018 Annual Congress; Oct 19-23, 2018; Munich, Germany.
- 2018** “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” 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. American Society of Clinical Oncology (ASCO) Annual Meeting; Jun 1-5, 2018; Chicago, IL USA.

- 2018** “Breast epithelial cell lines from normal breast with luminal and intrinsic subtypes -enriched gene expression document inter-individual differences in differentiation cascade” B Kumar, M Prasad, M Anjanappa, P Nakshatri, N Marino, AM Storniolo, X Rao, S Liu, J Wan, Y Liu and H Nakshatri. AACR Annual Meeting 2018; April 14-18, 2018; Chicago, IL USA.
- 2018** “Transcriptional changes in breast cancer initiation” N Marino, R German, ML. Johnson, X Rao, X Xuei, J Wan and AM V Storniolo. AACR Annual Meeting 2018; Apr 14-18, 2018; Chicago, IL USA.
- 2017** “UGDH is required for KLF4-mCpG dependent increase in GBM cell migration” O Oyinlade, J Wan, S Wei, J Qian, H Zhu, and S Xia. American Association for Cancer Research (AACR) Annual Meeting 2017; Apr 1-5, 2017; Washington, DC USA.

TEACHING

Mentoring Activities

Graduate Students

- 2019 – present Ph.D. supervisor, Mr. Kailing Li, Department of BioHealth Informatics, School of Informatics and Computing, IUPUI
- 2017 – present Ph.D. supervisor, Ms Shuyi Fang, Department of BioHealth Informatics, School of Informatics and Computing, IUPUI
- 2020 – present Ph.D. Dissertation Committee member, Ms Paige Dausinas, Department of Cellular and Integrative Physiology, Indiana University School of Medicine.
- 2019 – present Ph.D. Dissertation Committee member, Mr. Enze Liu, Department of BioHealth Informatics, School of Informatics and Computing, IUPUI
- 2018 – present Ph.D. Advisory Committee member, Mr. Fahim Syed, Department of Microbiology, IUSM
- 2018 – present Ph.D. Advisory Committee member, Mr. Alan Hsu, Purdue University
- 2018 – present Ph.D. Advisory Committee member, Ms Duoqiao Chen, Department of BioHealth Informatics, School of Informatics and Computing, IUPUI
- 2018 – present Ph.D. Advisory Committee member, Mr. Ed Ronald Simpson, Department of BioHealth Informatics, School of Informatics and Computing, IUPUI
- 2019 M.Sc Dissertation Committee member, Mr. Deepak Kumar Lakshmiipathi, Department of BioHealth Informatics, School of Informatics and Computing, IUPUI
- 2017 Co-mentor on the project, Ms May Faek Mohamed Elbanna (Ph.D. student), Department of Pharmacology and Toxicology, IUSM

Staff/Postdoctoral fellows

- 2020 – present Dr. Yucheng Zhang (bioinformatician), C³B shared by IUSCC and PUCRR
- 2017 – present Dr. Sheng Liu (bioinformatician), C³B shared by IUSCC and PUCRR
- 2017 – present Ed Ronald Simpson (bioinformatician), C³B shared by IUSCC and PUCRR
- 2017 – present Dr. Sagar Utturkar (bioinformatician), C³B shared by IUSCC and PUCRR
- 2016 – present Dr. Nadia Atallah (bioinformatician), C³B shared by IUSCC and PUCRR
- 2016 – present Guanglong Jiang (bioinformatician), C³B shared by IUSCC and PUCRR
- 2017 – 2018 Hao Yu (bioinformatician), C³B shared by IUSCC and PUCRR
- 2017 – 2017 Dr. Xi Rao (bioinformatician), C³B shared by IUSCC and PUCRR
- 2016 – 2017 Dr. Yan Dong (bioinformatician), C³B shared by IUSCC and PUCRR

Summer Students

- 2019 Mr. Michael Wang (high school student), Carmel High School, Carmel IN
- 2017 Mr. Arun Kumar Boddapati (M.S. student), Department of BioHealth Informatics, School of Informatics and Computing, IUPUI
- 2017 Mr. Yi Li (undergraduate student), Department of Chemistry, Indiana University

Teaching Assignments

- Co-instructor of Q613 “Molecular and Biochemical Genetics Lab” (Fall 2020).
- Co-instructor of Workshop “Big Data Training for Cancer Research”, Purdue University, West Lafayette IN (June 2020).
- Co-instructor of 10-week short lectures of “Bioinformatics for Biologist (B4B)” (Spring 2020).
- Teacher of G848 “Bioinformatics, Genomics, Proteomics and Systems Biology” (Spring 2020).
- Lecturer of course “Overview of Precision Health” (IU School of Public Health, Spring 2020).
- Co-instructor of Q613 “Molecular and Biochemical Genetics Lab” (Fall 2019).
- Co-instructor of NGS G788 “Introduction to Next Generation Sequencing” (Fall 2019).
- Teacher of workshop “Molecular Biology” organized by IUSM (Summer 2019).
- Teacher of G848 “Bioinformatics, Genomics, Proteomics and Systems Biology” (Spring 2019).
- Co-instructor of Q613 “Molecular and Biochemical Genetics Lab” (Fall 2018).
- Co-instructor of NGS G788 “Introduction to Next Generation Sequencing” (Fall 2018).
- Co-instructor of summer workshop in Regenstrief Institute (Summer 2018).
- Teacher of G848 “Bioinformatics, Genomics, Proteomics and Systems Biology” (Spring 2018).
- Co-instructor of NGS G788 “Introduction to Next Generation Sequencing” (Fall 2017).

PROFESSIONAL SERVICES

Editorial Board

- 2021 – present Topics Board, *Life*
2020 – 2021 Guest Editor, Research topic “Computational Learning Models and Methods Driven by Omics for Biology” of *Frontiers in Genetics*.
2017 – present Editorial Board Member, *Briefings in Bioinformatics*
2012 – present Editorial Board Member, *International Journal of Computational Biology and Drug Design*
2013 Guest Editor, Special Issues “Computational System Biology” of *Scientific World Journal*

Ad hoc Review

Lancet, Genome Biology, Nucleic Acid Research, Briefings in Bioinformatics, Cell Research, Environment International, Genomics Proteomics and Bioinformatics, Bioinformatics, PLoS Computational Biology, Cells, Epigenetics, BMC Genomics, BMC Biology, Genes, PLoS One, Oncotarget, Journal of Medical Virology, Frontiers in Neurology, Translational Vision Science and Technology, Journal of Biomedicine and Biotechnology, Journal of Integrative Bioinformatics

Grant Panel Review

- 2020 Study Section: Ohio State University Center for Clinical and Translational Science (CCTS) Pilot Grants,
2020 External Reviewer of the Clinical and Translational Science Awards (CTSA) External Reviewers Exchange Consortium (CEREC)
2017 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

Other Professional Services

- 2021 Chair of Tutorial Session, The 12th Association of Computing Machinery (ACM) Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB)
2020 Chair of organizing committee for IUSM CCBB 2020 retreat
2019 – present Chair of seminar committee at the Center for Computational Biology and Bioinformatics (CCBB), Indiana University School of Medicine

- 2018 Chair of the session “Cancer Genomics” in 2018 International Conference on Intelligent Biology and Medicine, Los Angeles CA USA
- 2018 Co-organizer of Walther Cancer Foundation Annual Symposium at Notre Dame University
- 2018 Co-chair of “Bioinformatics” Session of Walther Cancer Foundation Annual Symposium
- 2012 – 2018 Program Committee Member, International Conference on Intelligent Biology and Medicine
- 2010 – present Program Committee Member, Workshop on Integrative Data Analysis in Systems Biology in the IEEE International Conference on Bioinformatics and Biomedicine
- 2008 – 2009 Organizer of Wilmer Eye Institute Research Discussion