ZHU Zhongxu

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Education

2019-Now **PhD**, Biomedical Sciences, City University of Hong Kong
Supervisor: Prof. WANG Xin **(https://xinwlab.netlify.app/)**

2021/07-2021/12 **Visiting Scholar**, City of Hope National Medical Center
Supervisor: Chair and Prof., Ajay GOEL **(https://www.cityofhope.org/ajay-goel)**

2012-2015 **MSc**, Bioinformatics, Zhejiang University
Supervisor: Prof. CHEN Xin **(https://person.zju.edu.cn/xchen)**

2008-2012 **BSc**, Biotechnology, Shandong Agriculture University
Minor: **BEng**, Computer Science and Technology

Employment

2016/11-Now Hangzhou Biomedical Biotechnology Co., LTD
2019/03-Now **Consultant** for bioinformatics affair in CAP Certificated laboratory
2016/11-2019/02 **Director** of the Departhment of Bioinformatics

2015/09-2016/10 Hangzhou Silicon Gene Biotechnology Co., LTD
Senior Bioinformatics **Engineer**

2015/07-2015/08 National Supercomputing Center, Tianjin
Engineer (Internship)

Publications

† co-first author

- [Accepted] Jinsei Miyoshi; **Zhongxu Zhu†**; Aiping Luo; Shusuke Toden; Xuantong Zhou; Daisuke Izumi; Mitsuro Kanda; Tetsuji Takayama; Iqbal Parker; Minjie Wang; Feng Gao; Ali Zaidi; Hideo Baba; Yasuhiro Kodera; Yongping Cui; Xin Wang; Zhijua Liu; Ajay Goel A microRNA-based liquid

biopsy signature for the early detection of esophageal squamous cell carcinoma: A retrospective, prospective and multicenter study, ***Molecular Cancer***

- Souvick Roy, Mitsuro Kanda, Sachiyo Nomura, **Zhongxu Zhu**, Yuji Toiyama, Akinobu Taketomi, James Goldenring, Hideo Baba, Yasuhiro Kodera, and Ajay Goel. Diagnostic efficacy of circular RNAs as noninvasive, liquid biopsy biomarkers for early detection of gastric cancer. ***Molecular Cancer*** 21, 42 (2022). **link**
- In-Seob Lee, **Zhongxu Zhu**, Jeeyun Lee, Joon Oh Park, Xiwei Wu, Tiffany Ong, Sierra Min Li, Xin Wang, Joseph Chao, and Ajay Goel. "A liquid biopsy signature predicts treatment response to fluoropyrimidine plus platinum therapy in patients with metastatic or unresectable gastric cancer: implications for precision oncology." ***Molecular Cancer*** 21, no. 1 (2022): 1-5. **link**
- Yuma Wada, Mitsuo Shimada, Yuji Morine, Tetsuya Ikemoto, Yu Saito, **Zhongxu Zhu**, Xin Wang et al. "Circulating miRNA Signature Predicts Response to Preoperative Chemoradiotherapy in Locally Advanced Rectal Cancer." ***JCO Precision Oncology*** 5 (2021): 1788-1801. **link**
- [Letter] Yuma Wada, **Zhongxu Zhu**, and Ajay Goel. "Re: Noninvasive identification of lymph node metastasis in T1 colorectal cancer by transcriptomic panel based on liquid biopsy assay: additional analytical strategies are needed (GASTRO-D-21-01671)." ***Gastroenterology*** (2021): S0016-5085. **link**
- Daisuke Izumi†, **Zhongxu Zhu†**, Yuetong Chen†, Shusuke Toden, Xinying Huo, Mitsuro Kanda, Takatsugu Ishimoto et al. "Assessment of the Diagnostic Efficiency of a Liquid Biopsy Assay for Early Detection of Gastric Cancer." ***JAMA network open*** 4, no. 8 (2021): e2121129-e2121129. **link**
- **Zhongxu Zhu**, Keqin Gregg, and Wenli Zhou. "iRGvalid: A Robust in silico Method for Optimal Reference Gene Validation." ***Frontiers in Genetics*** (2021): 1460. **link**
- Yu Chen†, Tan Wu†, **Zhongxu Zhu†**, Hao Huang, Liang Zhang, Ajay Goel, Mengsu Yang, and Xin Wang. "An integrated workflow for biomarker development using microRNAs in extracellular vesicles for cancer precision medicine." In ***Seminars in Cancer Biology*** . Academic Press, 2021. **link**
- Shilu Chen†, **Zhongxu Zhu†**, Xia Yang, Lili Liu, Yang-fan He, Ming-ming Yang, Xin-yuan Guan, Xin Wang, and Jing-ping Yun. "Cleavage and polyadenylation specific factor 1 promotes tumor progression via alternative polyadenylation and splicing in hepatocellular carcinoma." ***Frontiers in cell and developmental biology*** 9 (2021): 340. **link**
- [Book chapter] **Zhongxu Zhu†**, Guiyuan Han†, Hao Huang†, Lingli He, Yu Chen, Jia Ke, Feng Gao, Louis Vermeulen, and Xin Wang. "Genome-wide Discovery of MicroRNA Biomarkers for Cancer Precision Medicine." (2020): 1-34. **link**
- Han Hu†, Weitao Wang†, **Zhongxu Zhu†**, Jianhua Zhu, Deyong Tan, Zhipeng Zhou, Chuanzao Mao, and Xin Chen. "GIPS: A software guide to sequencing-based direct gene cloning in forward genetics studies." ***Plant physiology*** 170, no. 4 (2016): 1929-1934. **link**
- **Zhongxu Zhu**, and Xin Chen. "Single cell sequencing technology and its applications progress." ***Genomics and Applied Biology*** (2015): 05. **link**

Conference Proceedings

- [Poster] **Zhongxu Zhu**, and Xin Chen, Gene Identification Via Phenotype Sequencing: a Tool That Guides Sequencing Based Forward Genetics Studies, International Plant and Animal Genome Conference XXII 2014, San Diego, Jan. 2014
- [Abstract]

Patents

- 201810591504.3;;;
- 201810468822.0ID;;;
- 201721438010.9;;
- 201510890563.7;;

Teaching

2021/01-2021/05 Teaching Assistant, Introduction to Biostatistics and Data Analysis

2020/09-2020/12 Teaching Assistant, Genomics and Bioinformatics

2020/01-2020/05 Teaching Assistant, Introduction to Biostatistics and Data Analysis

2019/09-2019/12 Teaching Assistant, Calculus for Life Science

Professional Services

Reviewer

- Frontiers in Molecular Biosciences

Prizes

- Outstanding Academic Performance Award(2021)
- (2018)
- (2012)(2011)