# ZHU Zhongxu 朱忠旭

|  |  |
| --- | --- |
| City University of Hong Kong | <https://www.zxzyl.com> |
| 83 Tat Chee Ave | [ORCID:0000-0003-2197-5563](https://orcid.org/0000-0003-2197-5563) |
| Kowloon, Hong Kong | [中文简历](https://md.zxzyl.com/resume/ch.html) |

## Education

2019-Now

**PhD**, Biomedical Sciences, [City University of Hong Kong](https://www.cityu.edu.hk)

Supervisor: Prof. WANG Xin [(https://xinwlab.netlify.app/)](https://xinwlab.netlify.app/)

2021/07-2021/12

**Visiting Scholar**, Global Scholars Program, [City of Hope National Medical Center](https://www.cityofhope.org/homepage)

Supervisor: Chair and Prof., Ajay GOEL [(https://www.cityofhope.org/ajay-goel)](https://www.cityofhope.org/ajay-goel)

2012/08-2015/06

**MSc**, Bioinformatics, [Zhejiang University](https://www.zju.edu.cn/english/)

Supervisor: Prof. CHEN Xin [(https://person.zju.edu.cn/xchen)](https://person.zju.edu.cn/xchen)

2008/09-2012/06

**BSc**, Biotechnology, [Shandong Agriculture University](http://english.sdau.edu.cn/)

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, \* corresponding author

* 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\*, and Ajay Goel\*. A microRNA-based liquid biopsy signature for the early detection of esophageal squamous cell carcinoma: a retrospective, prospective and multicenter study. ***Mol Cancer*** 21, 44 (2022). [link](https://doi.org/10.1186/s12943-022-01507-x)
* 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. ***Mol Cancer*** 21, 42 (2022). [link](https://doi.org/10.1186/s12943-022-01527-7)
* 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.” ***Mol Cancer*** 21, no. 1 (2022): 1-5. [link](https://doi.org/10.1186/s12943-021-01483-8)
* 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](https://doi.org/10.1200/PO.21.00015)
* [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](https://doi.org/10.1053/j.gastro.2021.09.013)
* 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](https://doi.org/10.1001/jamanetworkopen.2021.21129)
* **Zhongxu Zhu**, Keqin Gregg, and Wenli Zhou\*. “iRGvalid: A Robust in silico Method for Optimal Reference Gene Validation.” ***Frontiers in Genetics*** (2021): 1460. [link](https://doi.org/10.3389/fgene.2021.716653)
* 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](https://doi.org/10.1016/j.semcancer.2021.03.011)
* 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](https://doi.org/10.3389/fcell.2021.616835)
* [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](https://doi.org/10.1039/9781788019958-00001)
* 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](http://dx.doi.org/10.1104/pp.15.01327)
* **Zhongxu Zhu**, and Xin Chen\*. “Single cell sequencing technology and its applications progress.” ***Genomics and Applied Biology*** (2015): 05. [link](http://dx.doi.org/10.13417/j.gab.034.000902)

## 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

* 发明专利201810591504.3一种基于目标区域测序的单个外显子拷贝数变异预测方法（发明人：朱忠旭;周文莉;杨克勤;吕远栋）
* 发明专利201810468822.0一种伴随实验生成样本ID的方法（发明人：朱忠旭;周文莉;杨克勤;牛成镇）
* 实用新型201721438010.9一种快速降压的高压灭菌锅（发明人：吕远栋;牛成镇;朱忠旭）
* 发明专利201510890563.7基于概率框架和重测序技术快速发现表型相关基因的方法（发明人：陈新;朱忠旭;王纬韬）

## 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)
* 公司优秀员工(2018)
* 校优秀毕业生(2012)，校优秀学生干部(2011)