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## 教育

2019-今

**博士**, 生物医学科学, [香港城市大学](https://www.cityu.edu.hk)

导师: 王鑫副教授 [(https://xinwlab.netlify.app/)](https://xinwlab.netlify.app/)

2021/07-2021/12

**访问学者**, 全球学者计划, [希望之城国家医疗中心](https://www.cityofhope.org/homepage)

导师: 讲座教授 Ajay GOEL [(https://www.cityofhope.org/ajay-goel)](https://www.cityofhope.org/ajay-goel)

2012/08-2015/06

**理学硕士**, 生物信息, [浙江大学](https://www.zju.edu.cn)

导师: 陈新教授 [(https://person.zju.edu.cn/xchen)](https://person.zju.edu.cn/xchen)

2008/09-2012/06

**理学学士**, 生物技术, [山东农业大学](https://www.sdau.edu.cn)

第二学位: **工学学士**, 计算机科学与技术

## 工作经历

2016/11-今

杭州迈迪科生物科技有限公司

2019/03-今 CAP认证实验室 **生信顾问**

2016/11-2019/02 生物信息部 **总监**

2015/09-2016/10

杭州基智基因科技有限公司 **高级生物信息工程师**

2015/07-2015/08

国家超级计算天津中心 **工程师** (实习)

## 文章

† 共同第一作者，\* 通讯作者

* 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)

## 会议

* [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]

## 专利

* 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）

## 教学

2021/01-2021/05

教学助理, Introduction to Biostatistics and Data Analysis

2020/09-2020/12

教学助理, Genomics and Bioinformatics

2020/01-2020/05

教学助理, Introduction to Biostatistics and Data Analysis

2019/09-2019/12

教学助理, Calculus for Life Science

## 专业服务

**审稿人**

* Frontiers in Molecular Biosciences

## 获奖

* 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)