# 朱忠旭

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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://infiomics.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 **部门经理**

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

* Zheguang Lin†, **Zhongxu Zhu†**, Mingliang Zhuang†, Zhi Wang, Yi Zhang, Fuchao Gao, Qingsheng Niu\*, Ting Ji\*, 2023. Effects of local domestication warrant attention in honey bee population genetics. ***Science Advances***. 9(18): eade7917. [link](https://doi.org/10.1126/sciadv.ade7917) (**co-first, 2022 IF: 14.9**, Featured artice)
* Kota Nakamura†, **Zhongxu Zhu†**, Souvick Roy†, Eunsung Jun, Haiyong Han, Ruben M. Munoz, Satoshi Nishiwada, Geeta Sharma, Derek Cridebring, Frederic Zenhausern, Seungchan Kim, Denise J. Roe, Sourat Darabi, In Woong Han, Douglas Evans, Suguru Yamada, Michael J. Demeure, Carlos Becerra, Scott A. Celinski, Erkut Borazanci, Susan Tsai, Yasuhiro Kodera, Joon Oh Park, John Bolton, Xin Wang\*, Song Cheol Kim\*, Daniel Von Hoff\*, Ajay Goel\*. An exosome-based transcriptomic signature for noninvasive, early detection of patients with pancreatic ductal adenocarcinoma: A multicenter cohort study. ***Gastroenterology*** 163.5 (2022): 1252-1266. (2022). [link](https://doi.org/10.1053/j.gastro.2022.06.090) (**co-first, 2022 IF: 33.8**)
* 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\*, Zhihua 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) (**co-first, 2022 IF: 41.4**)
* 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) (**co-author, 2022 IF: 41.4**)
* 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) (**second author, 2022 IF: 41.4**)
* 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) (**co-author, 2022 IF: 5.4**)
* [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) (**co-author, 2022 IF: 33.8**)
* 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) (**co-first, 2022 IF: 13.5**)
* **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) (**first author, 2022 IF: 4.7**)
* 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) (**co-first, 2022 IF: 17.0**)
* 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) (**co-first, 2022 IF: 6.0**)
* [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) (**first author**)
* 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) (**co-first, 2022 IF: 8.0**)
* **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) (**first author**)

## 会议

* [Poster] Guangzheng Deng, Yujuan Dong, **Zhongxu Zhu**, Yue Guo, Xin Wang, Simon Ng, Nathalie Wong; Abstract 2574: An exon‐skipping HDAC1 novel isoform promotes colorectal carcinogenesis. Cancer Res 1 April 2023; 83 (7\_Supplement): 2574. <https://doi.org/10.1158/1538-7445.AM2023-2574> [AACR link](https://aacrjournals.org/cancerres/article/82/12_Supplement/3389/700151)
* [Abstract] Katsuki Miyazaki, **Zhongxu Zhu**, Yuji Morine, Takeo Toshima, Yuji Toiyama, Yasuhiro Kodera, Xin Wang, Tomoharu Yoshizumi, Mitsuo Shimada, and Ajay Goel. “An exosomal miRNA-based liquid biopsy assay for the noninvasive diagnostic marker of intrahepatic cholangiocarcinoma” [DDW 2022]
* [Poster] Kota Nakamura, Souvick Roy, **Zhongxu Zhu**, Eunsung Jun, Haiyong Han, Ruben M. Munoz, Satoshi Nishiwada et al. “An exosomal miRNA-based liquid biopsy signature for the noninvasive early detection of pancreatic ductal adenocarcinoma.” Cancer Research 82, no. 12\_Supplement (2022): 3389-3389. <https://doi.org/10.1158/1538-7445.AM2022-3389> [AACR link](https://aacrjournals.org/cancerres/article/82/12_Supplement/3389/700151)
* [Abstract] Kota Nakamura, **Zhongxu Zhu**, Satoshi Nishiwada, In Woong Han, Joon Oh Park, Yasuhiro Kodera, Xin Wang, Masayuki Sho, and Ajay Goel. “Mo1227: A NOVEL MICRORNA SIGNATURE FOR PREDICTING SURVIVAL OUTCOMES IN PATIENTS WITH RESECTABLE PANCREATIC CANCER.” Gastroenterology 162, no. 7 (2022): S-734. [link](10.1016/S0016-5085(22)61732-3)
* [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

## 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, 生物统计与数据分析导论

2020/09-2020/12

教学助理, 基因组学与生物信息学

2020/01-2020/05

教学助理, 生物统计与数据分析导论

2019/09-2019/12

教学助理, 生命科学中的微积分

## 专业服务

**审稿人**

* Frontiers in Molecular Biosciences
* Frontiers in Immunology

## 获奖

* 研究生研究成果奖 (2022，生物医学系)
* 杰出学术表现奖 (2021，研究生院)
* 公司优秀员工 (2018)
* 校优秀毕业生 (2012)，校优秀学生干部 (2011)