



王峥 博士

研究员 博士生导师

● **教育和工作背景:**

2008 年，天津大学，生物工程专业，工学学士；

2014 年，南开大学，生物化学与分子生物学专业，理学博士；

2014/08—2017/11，中国科学院生物物理研究所，生物大分子国家重点实验室，博士后（合作导师：张宏 院士）；

2017/12—2024/01，中国科学院生物物理研究所，生物大分子国家重点实验室，副研究员；

2024/02—至今，南昌大学基础医学院/生物医学创新研究院/第二附属医院，研究员、博士生导师。

● **研究兴趣、领域:**

课题组主要致力于细胞自噬的分子机制和生物大分子相变方向的研究，以第一和/或通讯作者身份在 *Molecular Cell*、*Developmental Cell*、*JCB* 等国际顶尖学术期刊发表论文八篇，主持国家自然科学基金面上和原创探索计划项目。

● **主要成果、荣誉、奖励（代表性即可，原则上不超过 10 项）:**

[1] **Zheng Wang^{#*}**, Chun Yang[#], Dongshi Guan, Jiaqi Li, and Hong Zhang. (2023) Cellular proteins act as surfactants to control the interfacial behavior and function of biological condensates. *Developmental Cell*, 58: 919-932. (*Featured article, highlighted in Developmental Cell entitled "Soaping up transcriptional condensates"*).

[2] **Zheng Wang**, Di Chen, Dongshi Guan, Xiaobo Liang, Jianfeng Xue, Hongyu Zhao, Guangtao Song, Jizhong Lou, Yan He, and Hong Zhang[#]. (2022) Material properties of phase-separated TFEB condensates regulate the autophagy-lysosome pathway. *Journal of Cell Biology*, 221: e202112024.

[3] **Zheng Wang***, Jizhong Lou*, and Hong Zhang*. (2022) Essence determines phenomenon: Assaying the material properties of biological condensates. *Journal of Biological Chemistry*, 298:101782.

[4] **Zheng Wang**, Gangming Zhang, and Hong Zhang*. (2019) Protocol for analyzing protein liquid–liquid phase separation. *Biophysics Reports*, 5: 1-9.

[5] **Zheng Wang**, and Hong Zhang*. (2019) Phase separation, transition, and autophagic degradation of proteins in development and pathogenesis. *Trends in Cell Biology*, 29: 417-427. *(Cover story)*.

[6] **Zheng Wang**[#], Guangyan Miao[#], Xue Xue[#], Xiangyang Guo, Chongzhen Yuan, Zhaoyu Wang, Gangming Zhang, Yingyu Chen, Du Feng, Junjie Hu, and Hong Zhang*. (2016) The Vici syndrome protein EPG5 is a Rab7 effector that determines the fusion specificity of autophagosomes with late endosomes/lysosomes. *Molecular Cell*, 63: 781-795. *(Recommended by “Faculty of 1000”)*.

[7] **Zheng Wang**[#], Xue Yang[#], Shuang Guo, Yin Yang, Xun-Cheng Su, Yuequan Shen*, and Jiafu Long*. (2014) Crystal structure of the ubiquitin-like domain-CUT repeat-like tandem of special AT-rich sequence binding protein 1 (SATB1) reveals a coordinating DNA-binding mechanism. *Journal of Biological Chemistry*, 289: 27376-27385.

[8] **Zheng Wang**[#], Xue Yang[#], Xinlei Chu, Jinxiu Zhang, Hao Zhou, Yuequan Shen*, and Jiafu Long*. (2012) The structural basis for the oligomerization of the N-terminal domain of SATB1. *Nucleic Acids Research*, 40: 4193-4202.

● **联系方式:**

E-mail: wz1103@ncu.edu.cn