王亚龙 博士

研究员

- **教育和工作背景：**

2016 年，上海大学，生物工程专业，理学学士；

2021 年，清华大学，生物学专业，理学博士；

2021/07—2023/07，中国科学院广州生物医药与健康研究院，博士后；

2023/08—2023/05，广州国家实验室，副研究员；

2023/05—至今，南昌大学基础医学院，教授、博士生导师。

- **研究兴趣、领域：**

课题组主要致力于类器官体系构建与应用，干细胞命运决定，器官稳态调控等相关研究。以第一或通讯（含共同）作者身份在 Science Advances，Journal of Experimental Medicine，Advanced Science，Science China-Life Sciences，Cell Regeneration 等杂志发表论文 10 余篇，获国家自然科学基金青年基金、中国博士后站中和面上特别资助、广东省粤穗联合青年基金、广州市科协青年人才托举工程等项目支持，并参与起草 6 项类器官相关团体标准和英文版类器官应用专家共识。

- **学术兼职：**

中国标准化协会生物资源与设施专业委员会、广东省呼吸与健康学会干细胞与再生医学专业委员会委员

- **主要成果、荣誉、奖励（代表性即可，原则上不超过 10 项）：**

[1] **Yalong Wang***, Ruoyu Lou*, Zhe Zhang, Chuyu Xiao, Shicheng Yu, Siting Wei, Yuan Liu, Wei Fu, Baojie Li, Ye-Guang Chen#. Stromal BMP signaling regulates mucin production in the large intestine. ***Science Advances***, 2023; 9(43): eadi1827.

[2] **Yalong Wang***, Wanlu Song*, Jilian Wang, Ting Wang, Xiaochen Xiong, Zhen Qi, Wei Fu#, Xuerui Yang#, Ye-Guang Chen#. Single-cell transcriptome analysis reveals differential nutrient absorption functions in human intestine. ***Journal of Experimental Medicine***, 2020; 217(2): e20191130.

[3] Liansheng Liu*, **Yalong Wang***, Shicheng Yu*, Huidong Liu, Yehua Li, Shan Hua, Ye-Guang Chen#. Transforming growth factor beta promotes inflammation and tumorigenesis in Smad4-deficient intestinal epithelium in a YAP-dependent manner. ***Advanced Science***, 2023; e2300708.

[4] **Yalong Wang***, Wanlu Song *, Shicheng Yu, Yuan Liu, Ye-Guang Chen#. Intestinal cellular heterogeneity and disease development revealed by single-cell technology. ***Cell Regeneration***, 2022; 11(1): 26.

[5] Xin Fu*, Qiang He*, Yu Tao*, Mengdi Wang*, Wei Wang*, **Yalong Wang***, Qing Cissy Yu*, Fang Zhang*, Xiaoyu Zhang*, Ye-Guang Chen#, Dong Gao#, Ping Hu#, Lijian Hui#, Xiaoqun Wang#, Yi Arial Zeng#. Recent advances in tissue stem cells. ***Science China life science,*** 2021; 64(12):1998-2029.

[6] Ruoyu Lou*, Wanlu Song, Shicheng Yu, Xiaodan Wang, Yuan Liu, Ye-Guang Chen#, **Yalong Wang**#. Identification of feature genes in intestinal epithelial cell types. ***Cell Regeneration***, 2024;13(1):24.

[7] **Yalong Wang***, Hanqing Lin*, Lianzheng Zhao*, Fan Hong*, Jie Hao, et al. Ye-Guang Chen#. Standard: Human intestinal organoids. ***Cell Regeneration***, 2023;12(1):23

[8] **Yalong Wang***, Ronghui Tan*, Ye-Guang Chen#. Organoid Culture of Different Intestinal Segments from Human and Mouse. ***Methods in molecular biology***, 2024; Apr, 23.

[9] Lei Liu*, Tian Li*, Yilie Liao*, **Yalong Wang**, Yang Gao, Haikun Hu, Haipeng Huang, Fang Wu, Ye-Guang Chen, Shuhua Xu, Suneng Fu#. Triose Kinase Controls the Lipogenic Potential of Fructose and Dietary Tolerance. ***Cell Metabolism***, 2020; 32(4): 605-618.

[10] Ru Li*, Tiantian Li, Genzhe Lu, Zhi Cao, Bowen Chen, **Yalong Wang**, Juanjuan Du, Pilong Li#. Programming cell-surface signaling by phase-separation-controlled compartmentalization. ***Nature Chemical Biology***, 2022; 18(12): 1351-1360.

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