

# Zou Zhenjiang

Email: zouzhj5@mail2.sysu.edu.cn

<https://zouzhenjiang.github.io/Zouzhenjiang/>

Phone: +86 17872008772

Address: Building 408, B512, No. 135 Xin Gang West Road, South Campus, Sun Yat-sen University, Haizhu District, Guangzhou, China.

## Education Background

### Sun Yat-sen University

Master of science, School of Life Science.

Sep 2022 - Now

Guangzhou, China

### Huazhong Agriculture University

Bachelor of Agriculture, School of Fisheries

Sep 2018 - Jun 2022

Wuhan, China

## Publications

Zou Z., Lu Y., Long C., Song Y., Dai Q., Hou J., Wu J., Lin H., Zhang Y., Lu D. (2024). Interaction mechanism of lipid metabolism remodeling, oxidative stress, and immune response mediated by *Epinephelus coioides* SRECII. **Free Radical Biology and Medicine**. (IF=7.1, minor revision)

Wang J\*, Zou Z\*, Li L., Gu Z., Yuan J. (2023). DAS-ELISA method of detecting intestinal permeability based on I-FABP in crucian carp (*Carassius auratus*). **Journal of Anhui Agriculture University**, 809-816.

Liu, D\*, Zhang, J\*, Zou, Z., Long, C., Lin, J., Zeng, J., ... & Zhang, Y. (2024). Identification of SNPs and candidate genes associate with growth performance in all-female mandarin fish (*Siniperca chuatsi*) by a genome-wide association study. **Aquaculture**, 586, 740778. (IF=3.9)

Lai, W., Dai, Q., Zou, Z., Wu, Z., Wang, T., Yu, X., ... & Lu, D. (2024). IFN $\gamma$  modulates the innate immune response via Toll-like receptors in green-spotted pufferfish (*Tetraodon nigroviridis*). **Aquaculture International**, 1-16. (IF=2.2)

He, L., Liang, Y., Yu, X., Zhao, Y., Zou, Z., Dai, Q., Wu, J., Gan, S., Lin, H., Zhang, Y., & Lu, D. (2023). UNC93B1 facilitates the localization and signaling of TLR5M in *Epinephelus coioides*. **International journal of biological macromolecules**, 128729. (IF=7.7)

Wu, Z., Lai, W., Dai, Q., Zou, Z., Lu, Y., Xu, J., ... & Lu, D. Q. Growth Performance, Flesh Fatty Acid Profile and Transcriptome Analyses Reveal Altered Metabolic Patterns in Hybrid \*hu Grouper (*Epinephelus fuscoguttatus* ♀ × *Epinephelus tukula* ♂ ) Adapting to Deeper-Offshore Aquaculture Systems.

## Skills

- **Software skills:** R studio, Seurat, Prism, AI, Image J
- **Animal experiment skills:** Animal husbandry, Sampling
- **Wet lab skills:** RNA/DNA Extracting, Real-time PCR, Western Blot, Separation and culture of cells, Flow Cytometry, Library Construction

## Research Experience

State Key Laboratory of Biocontrol, Sun Yat-Sen University | Guangzhou, China

Postgraduate student in Professor Yong Zhang's Lab

**Project title: Single Nuclei RNA Sequencing (snRNA-seq) reveals the mechanisms of adipose tissue of *Epinephelus coioides* in regulating anti-bacterial infection** Sept 2022 – Now

- Single nuclear suspension preparation of adipose tissue
- Cellranger processing of sequencing data: cellranger mkref, cellranger count
- Analysis by Seurat: Data filtering, normalization, cell clustering, reduction et.al
- Rstudio graphing: Barplot, UMAP/tSNE, volin, pheatmap, bubble

**Project title: Interaction mechanism of lipid metabolism remodeling, oxidative stress, and immune response mediated by *Epinephelus coioides* SRECH** Sept 2022 – May 2023

- Husbanded and sampled experiment animals
- Analyzed transcriptome data
- Measured and analyze the lipid metabolism, immune response and oxidative stress of cell
- Completed and draft manuscript for publication

**College of Fisheries, Huazhong Agriculture University | Wuhan, China**

Undergraduate student in Professor Junfa Yuan's Lab

**Project title: DAS-ELISA method of detecting intestinal permeability based on I-FABP in crucian carp (*Carassius auratus*)** Mar. 2020 - Jun. 2022

- Analyzed and cloned the sequence of i-fabp of Crucian carp
- Prokaryotic expressed and purificated of I-FABP
- Prepared examined the antibodies of I-FABP
- Completed and draft manuscript for publication

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### **Honors and Sponsorships**

Sun Yat-Sen University First Prize Scholarship	2022-2024
Excellent graduation thesis of Huazhong Agricultural University	2022
College-Level Outstanding Student Leader	2021

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### **Languages**

Mandarin (Native), English (Conversant), Cantonese (Fluent)