Zou Zhenjiang

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Education Background

Sun Yat-sen University **Sep 2022 - Now**
Master of science, School of Life Science. GPA:86.6/100 Guangzhou, China

Huazhong Agriculture University **Sep 2018 - Jun 2022**
Bachelor of Agriculture, School of Fisheries 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). IFNγ 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

Principle Investigator

- 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* SRECII** Sept 2022 – May 2023

Principle Investigator

- 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**

Principle Investigator

- 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

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

Languages

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