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### 个人基本情况

教育经历：

1994. 09—1998. 06，山东师范大学，生命科学学院，食品科学与工程专业，学士

2003. 09—2006. 06，山东师范大学，生命科学学院，动物学专业，硕士

2013. 09—2016. 06，中国海洋大学，水产学院，水产动物营养与饲料学专业，博士

### 主要研究方向及简介

研究方向：（1）鱼类营养与饲料；（2）鱼类营养免疫。

### 开设课程

“现代仪器分析”、“食品营养与健康”

### 近年的项目、论文、专利、获奖

项目：

[1] 山东省自然科学基金面上项目，ZR2016CM18，Wnt 信号分子参与斑马鱼脂肪节约蛋白质的调控机制研究，2016. 11—2019. 06，16 万元，结题，主持

论文：

[1] Ziqiang Liu, Yao Liu, Yaqi Gu, Lili Gao, Ao Li, **Dongwu Liu**, Cuijie Kang, Qiuxiang Pang, Xiaoqian Wang, Qiang Han, Hairui Yu. Met-enkephalin inhibits ROS production through Wnt/ $\beta$ -catenin signaling in the ZF4 cells of zebrafish. *Fish and Shellfish Immunology*, 2019, 88: 432-440.（通讯作者）

[2] Yaqi Gu, Lili Gao, Qiang Han, Ao Li, Hairui Yu, **Dongwu Liu**, Qiuxiang Pang. GSK-3 $\beta$  at the Crossroads in Regulating Protein Synthesis and Lipid Deposition in Zebrafish. *Cells*, 2019; 8(3): 205.（通讯作者）

- [3] **Dongwu Liu**, Hairui Yu, Lili Gao, Ao Li, Hongkuan Deng, Zhuangzhuang Zhang, Shiyi Tao, Ziqiang Liu, Qiao Yang, Qiuxiang Pang. The inhibition of GSK-3 $\beta$  promotes the production of reactive oxygen species via  $\beta$ -catenin/C/EBP $\alpha$  signaling in the spleen of zebrafish (*Danio rerio*). *Fish & Shellfish Immunology*, 2018, 76: 110-120.
- [4] **Dongwu Liu**, Hairui Yu, Qiuxiang Pang, Xiuzhen Zhang. Investigation of the lipid-lowering effect of Vitamine C through GSK-3 $\beta$ / $\beta$ -catenin signaling in zebrafish. *Frontiers in Physiology*, 2018, 9: 1-11.
- [5] **Dongwu Liu**, Lili Gao, Zhuangzhuang Zhang, Shiyi Tao, Qiuxiang Pang, Ao Li, Hongkuang Deng, Hairui Yu. Lithium promotes the production of reactive oxygen species via GSK-3 $\beta$ /TSC2/TOR signaling in the gill of zebrafish (*Danio rerio*). *Chemosphere*, 2018, 195: 854-863.
- [6] Peng Tan, Mo Peng, **Dongwu Liu**, Huarong Guo, Kangsen Mai, Rui Nian, Benoit Macq, Qinghui Ai. Suppressor of cytokine signaling 3 (SOCS3) is related to pro-inflammatory cytokine production and triglyceride deposition in turbot (*Scophthalmus maximus*). *Fish & Shellfish Immunology*, 2017, 70, 381-390.
- [7] **Dongwu Liu**, Kangsen Mai, Yanjiao Zhang, Wei Xu, Qinghui Ai. Tumour necrosis factor- $\alpha$  inhibits hepatic lipid deposition through GSK-3 $\beta$ / $\beta$ -catenin signaling in juvenile turbot (*Scophthalmus maximus* L.). *General and comparative endocrinology*, 2016, 228: 1-8.
- [8] **Dongwu Liu**, Kangsen Mai, Yanjiao Zhang, Wei Xu, Qinghui Ai. GSK-3 $\beta$  participates in the regulation of hepatic lipid deposition in large yellow croaker (*Larmichthys crocea*). *Fish physiology and biochemistry*, 2016, 42, 379-388.
- [9] **Dongwu Liu**, Kangsen Mai, Yanjiao Zhang, Wei Xu, Qinghui Ai. Wnt/ $\beta$ -catenin signaling participates in the regulation of lipogenesis in the liver of juvenile turbot (*Scophthalmus maximus* L.). *Comparative Biochemistry and Physiology Part B: Biochemistry and Molecular Biology*, 2016, 191: 155-162.
- [10] **Dongwu Liu**, Kangsen Mai, Qinghui Ai. Tumor necrosis factor alpha is a potent regulator in fish adipose tissue. *Aquaculture*, 2015, 436: 65-71. (review)

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