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个人简介

阳大海，博士，副教授，硕士生导师。华东理工大学和美国密西根大学联合培养博士，2015 年毕业后留校工作，2018 年晋升副教授，现为生物反应器工程国家重点实验室固定人员。先后入选中国科协“青年人才托举工程”、上海市“浦江人才计划”和“晨光人才计划”、华东理工大学青年英才培育计划。主持国家自然科学基金、参与国家重点研发计划等项目。以第一/通讯作者在 Immunity, Nature Communications, PLoS Pathogens, Cellular Microbiology 等领域内高水平期刊发表研究论文 10 余篇，以共同作者在 Nature, Cell, Cell Host & Microbe 等期刊发表论文 15 篇，被 SCI 刊源引用 730 余次；担任国家自然科学基金委农业动物科学处基金评审, Microbial Cell 杂志编委；中国水产学会“鱼病专业委员会”、中国微生物学会、中国免疫学会会员；为 Journal of Immunology, Communications Biology, Cellular Microbiology, Frontiers in Cellular and Infection Microbiology, Scientific Reports, JoVE, Fish & Shellfish Immunology 等领域内 SCI 杂志审稿 30 余篇，主办首届“斑马鱼疾病模型青年论坛”，在中国免疫学学术大会、中国微生物学会学术年会、中国水产学会鱼病专业研讨会、斑马鱼 PI 大会、国际斑马鱼大会、世界水产大会（AQUA）以及 Zebra fish Diseases Models Conference 等国内外专业领域学术会议做报告 20 余次。

研究方向

- 1. 细菌感染激活细胞焦亡分子机制
- 2. 脓毒症多器官损伤发生机制
- 3. 鱼类抗感染免疫分子机制

研究成果及主要发表文章

1. Yang D., He Y., Muñoz-Planillo R., Liu Q.*, Núñez G*. Caspase-11 requires the pannexin-1 channel and the purinergic P2X7 pore to mediate pyroptosis and endotoxic shock. Immunity2015, 43: 923-932. (Q1, IF=24.082)
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2. Yang D., Zheng X., Chen S., Wang Z., Xu W., Tan J., Hou M., Wang W., Gu Z., Wang Q., Zhang R., Zhang Y., Liu Q.*, Sensing of cytosolic LPS through casp2 pyrin domain mediates noncanonical inflammasome activation in zebrafish, Nature Communications2018, 9: 3025. (Q1, IF=12.353)

3. Yang D.#, Liu X. #, Xu W., Gu Z., Yang C., Zhang L., Tan J., Zheng X., Wang Z., Quan S., Zhang Y., Liu Q.*. The Edwardsiella piscicida thioredoxin-like protein inhibits ASK1-MAPKs signaling cascades to promote pathogenesis during infection, PLoS Pathogens2019, 15(7): e1007917.(Q2, IF=6.4)

4. Wen Y., Chen S., Jiang Z., Wang Z., Tan J., Hu T., Wang Q., Zhou X., Zhang Y., Liu Q., Yang D.*, Haemolysin promotes bacterial outer membrane vesicles-induced pyroptotic-like cell death in zebrafish, Cellular Microbiology2019, e13010. (Q2, IF=4.41)

5. Cao H., Yang C., Quan S., Hu T., Zhang L., Zhang Y., Yang D.*, Liu Q.*, Novel T3SS effector EseK in Edwardsiella piscicida is chaperoned by EscH and EscS to express virulence, Cellular Microbiology2018, 20 (1): e12790. (Q2, IF=4.41)

6. Wang Z., Lin L., Chen W., Zheng X., Zhang Y., Liu Q., Yang D.*, Neutrophil plays critical role during Edwardsiella piscicida immersion infection in zebrafish larvae. Fish and Shellfish Immunology2019, 87: 565-572.(Q1, IF=3.185)

7. Cao H., Han F., Tan J., Hou M., Zhang Y., Yang D.*, Liu Q.*, Edwardsiella piscicida T3SS effector EseK inhibits MAPKs phosphorylation and promotes bacterial colonization in zebrafish larvae, Infection and Immunity2018, 68 (9): e00233-18.(Q2, IF=3.63)

8. Xu W., Gu Z., Zhang L., Zhang Y., Liu Q., Yang D.*, Edwardsiella piscicida virulence effector trxlP promotes the NLRC4 inflammasome activation during infection, Microbial Pathogenesis 2018, 123: 496-504. (Q4, IF=2.332)

9. Yang D., Liu Q.*, Ni C., Li S., Wu H., Wang Q., Xiao J., Zhang Y., Gene expression profiling in live attenuated Edwardsiellatarda vaccine immunized and challenged zebrafish: Insights into the basic mechanisms of protection seen in immunized fish, Developmental and Comparative Immunology2013, 40: 132-141. (Q1, IF=3.25)

10. Yang D., Liu Q.*, Yang M., Wu H., Wang Q., Xiao J., Zhang Y.*, RNA-seq liver transcriptome analysis reveals an activated MHC-I pathway and an inhibited MHC-II pathway at the early stage of vaccine immunization in zebrafish, BMC genomics 2012, 13: 319. (Q2, IF=3.620)

11. Hara H., Seregin SS., Yang D., Fukase K., Chamailard M., Emad SA., Inohara N., Chen G.Y, Nunez G.*, NLRP6 recognizes lipoteichoic acid and activates caspase-11 and caspase-1 to regulate Gram-positive pathogen infection.Cell2018, 18: 31259-5 (Q1, IF=28.71)

12. He Y., Zeng M.Y., Yang D., Motro B., Núñez G.*, Nek7 is an essential mediator of NLRP3 activation downstream of potassium efflux. Nature2016, 530(7590): 354-7. (Q1, IF=41.577)

13. Chen S., Yang D., Wen Y., Jiang Z., Zhang L., Jiang J., Chen Y., Hu T., Wang Q., Zhang Y., Liu Q.*, Dysregulated hemolysin liberates bacterial outer membrane vesicles for cytosolic lipopolysaccharide sensing. PLoS Pathogens 2018, 14(8): e1007240 (Q2, IF=6.158)

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15. Xu C., Yan Y., Tan J., Yang D., Jia X., Wang L., Xu Y., Cao S., Sun S., Biodegradable Nanoparticles of Polyacrylic Acid-Stabilized Amorphous CaCO3 for Tunable pH-Responsive Drug Delivery and Enhanced Tumor Inhibition. Advanced Functional Materials 2019, 29 (24): 1808146. (Q1, IF=13.325)