

CURRICULUM VITAE

Personal Information			
Name	Yongyao Yu	Gender	Male
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Address	No.1, Shizishan Street, Hongshan District, Wuhan, Hubei Province, China		
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Research Interest			
<p>My research focuses on the diversity of mucosal immune systems and its evolution in vertebrates. Mucosal surfaces are at the interface between hosts and the environment and therefore integrate the external and internal signals. My laboratory has very diverse research interests and we currently have active projects in Rainbow trout, Zebrafish, Nile tilapia, Argus snakehead, Bluntnose black bream. From an evolutionary perspective, our studies are relevant to deciphering unresolved paradigms of the mammalian immune system, and thus, we are using these as a model to address several aspects of mammalian B cells and mucosal immunity</p>			
Professional Memberships			
<p>Youth Editorial Board Members of <i>iMeta</i>; Youth Editorial Board Members of <i>Acta Hydrobiologica Sinica</i>; Section Board Member of <i>Biology</i>; Guest Associate Editor and Reviewer Editor of <i>Frontiers in Immunology</i>; Member of the International Society for Developmental and Comparative Immunology;</p>			
Other Roles			
None			
Education & Working Experience			
<p>200809-201206 Bachelor degree in Agronomy (Fishers), Aquatic science and technology major, Huazhong Agricultural University, China. 201209-201912 P.h.D, Aquatic Animal Medicine major, Huazhong Agricultural University, China. 202001-202304 Postdoc. Aquatic Animal Medicine major, Huazhong Agricultural University, China. 202304- Professor, Aquatic Animal Medicine, Huazhong Agricultural University, China.</p>			

Publications

1. **Yongyao Yu[#]**, Zhenyu Huang[#], Weiguang Kong[#], Fen Dong[#], Xiaoting Zhang, Xue Zhai, Gaofeng Cheng, Mengting Zhan, Jiafeng Cao, Ligu Ding, Guangkun Han, Fumio Takizawa, Yang Ding, J. Oriol Sunyer*, Zhen Xu*. Teleost swim bladder, an ancient air-filled organ that elicits mucosal immune responses, *Cell Discovery*. 2022, 8(1):1-18.
2. **Yongyao Yu[#]**, Ligu Ding[#], Zhenyu Huang[#], Haoyue Xu[#], Zhen Xu*. Commensal bacteria-immunity crosstalk shapes mucosal homeostasis in teleost fish, *Reviews in Aquaculture*. 2021, 13(4):2322-2343.
3. **Yongyao Yu[#]**, Weiguang Kong[#], Yaxing Yin, Fen Dong, Zhenyu Huang, Zhen Xu*. Mucosal immunoglobulins protect the olfactory organ of teleost fish against parasitic infection. *PLOS Pathogens*. 2018, 14(11): e1007251.
4. **Yongyao Yu[#]**, Weiguang Kong[#], Haoyue Xu, Zhenyu Huang, Xiaoting Zhang, Ligu Ding Shuai Dong, Guangmei Yin, Fen Dong, Wei Yu, Jiafeng Cao, Kaifeng Meng, Xia Liu, Yu Fu, Xuezhen Zhang, Yongan Zhang, Oriol Sunyer, Zhen Xu*. Convergent evolution of mucosal immune responses at the buccal cavity of teleost fish. *iScience*. 2019, 27(19):821-835.
5. Xiaoting Zhang[#], **Yongyao Yu[#]**, Haoyue Xu[#], Zhenyu Huang, Xia Liu, Jiafeng Cao, Kaifeng Meng, Zhengben Wu, Guangkun Han, Mengting Zhan, Ligu Ding, Weiguang Kong, Nan Li, Fumio Takizawa, Sunyer J Oriol, Zhen Xu*. Prevailing role of mucosal Igs and B cells in teleost skin immune responses to bacterial infection, *Journal of Immunology*. 2021, 206(5):1088-1101.
6. Weiguang Kong[#], **Yongyao Yu[#]**, Shuai Dong, Zhenyu Huang, Ligu Ding, Jiafeng Cao, Fen Dong, Xiaoting Zhang, Xia Liu, Haoyue Xu, Kaifeng Meng, Jianguo Su, Zhen Xu*. Pharyngeal immunity in early vertebrates provides functional and evolutionary insight into mucosal homeostasis. *Journal of Immunology*. 2019, 203(11):3054-3067.
7. **Yongyao Yu[#]**, Qingchao Wang[#], Zhenyu Huang[#], Ligu Ding[#], Zhen Xu*. Immunoglobulins, mucosal immunity and vaccination in teleost fish, *Frontiers in Immunology*. 2020, 11:2597.
8. Zhen Xu[#], Fumio Takizawa[#], Elisa Casadei, Yasuhiro Shibasaki, Yang Ding, Thomas J. C. Sauters, **Yongyao Yu**, Irene Salinas*, J. Oriol Sunyer*. Specialization of mucosal immunoglobulins in pathogen control and microbiota homeostasis occurred early in vertebrate evolution. *Science Immunology*. 2020, 5(44): eaay3254.