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The immune-related fatty acids are responsive to CO<sub>2</sub> driven seawater acidification in a crustacean brine shrimp *Artemia sinica* 

Yan Gao, Shu-cheng Zheng, Chao-qun Zheng, Yue-chen Shi, Xiao-lu Xie, Ke-jian Wang, Hai-peng Liu

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### **ACCEPTED MANUSCRIPT**

## The immune-related fatty acids are responsive to CO<sub>2</sub> driven seawater acidification in a crustacean brine shrimp Artemia sinica Yan Gao<sup>a</sup>,\*, Shu-cheng Zheng a,\*, Chao-qun Zheng a, Yue-chen Shi a, Xiao-lu Xie a Ke-jian Wang a,b, Hai-peng Liu a,b,# <sup>a</sup> State Key Laboratory of Marine Environmental Science; College of Ocean and Earth Sciences, Xiamen University, Xiamen 361102, Fujian, PR China <sup>b</sup> Fujian Collaborative Innovation Center for Exploitation and Utilization of Marine Biological Resources, State-Province Joint Engineering Laboratory of Marine Bioproducts and Technology, Xiamen 361102, Fujian, PR China \* Contribute equally to this work. <sup>#</sup> Corresponding author. State Key Laboratory of Marine Environmental Science, Xiamen University, Fujian Province 361102, PR China.

E-mail address: Haipengliu@xmu.edu.cn (H.-p. Liu).

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