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Effects of acute ammonia toxicity on oxidative stress, immune response and apoptosis of juvenile yellow catfish *Pelteobagrus fulvidraco* and the mitigation of exogenous taurine

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Effects of acute ammonia toxicity on oxidative stress, immune response and apoptosis of juvenile 1 2 yellow catfish Pelteobagrus fulvidraco and the mitigation of exogenous taurine 3 4 Muzi Zhang, Ming Li*, Rixin Wang, Yunxia Qian* 5 School of Marine Sciences, Ningbo University, Ningbo, 315211, China. 6 7 8 *Corresponding author 9 Ming Li, Ph.D. Tel./fax: +86 574 87609880. E-mail: liming1@nbu.edu.cn. 10 Yunxia Qian, Ph.D. Tel./fax: +86 574 87609880. E-mail: qianyunxia@nbu.edu.cn. 11 12 Running headline: Effects of ammonia on fish and mitigation by taurine

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