

Accepted Manuscript

Influence of stocking density on growth, digestive enzyme activities, immune responses, antioxidant of *Oreochromis niloticus* fingerlings in biofloc systems

Gang Liu, Zhangying Ye, Dezhao Liu, Jian Zhao, Elayaraja Sivaramasamy, Yale Deng, Songming Zhu



PII: S1050-4648(18)30455-8

DOI: [10.1016/j.fsi.2018.07.047](https://doi.org/10.1016/j.fsi.2018.07.047)

Reference: YFSIM 5447

To appear in: *Fish and Shellfish Immunology*

Received Date: 27 April 2018

Revised Date: 16 July 2018

Accepted Date: 25 July 2018

Please cite this article as: Liu G, Ye Z, Liu D, Zhao J, Sivaramasamy E, Deng Y, Zhu S, Influence of stocking density on growth, digestive enzyme activities, immune responses, antioxidant of *Oreochromis niloticus* fingerlings in biofloc systems, *Fish and Shellfish Immunology* (2018), doi: [10.1016/j.fsi.2018.07.047](https://doi.org/10.1016/j.fsi.2018.07.047).

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Influence of Stocking density on Growth, Digestive Enzyme Activities, Immune Responses, Antioxidant of *Oreochromis niloticus* Fingerlings in Biofloc Systems

Gang Liu^a, Zhangying Ye^a, Dezhao Liu^a, Jian Zhao^a, Elayaraja Sivaramasamy^a, Yale Deng^b, Songming Zhu^{a*}

^a*College of Bio-systems Engineering and Food Science, Zhejiang University, Hangzhou, 310058, PR China*

^b*Aquaculture and Fisheries Group, Department of Animal Sciences, Wageningen University, 6708 WD Wageningen, the Netherlands*

**Corresponding author: Songming Zhu, Zhejiang University, 866 Yuhangtang Road, Hangzhou, China 310058, Email: zhusm@zju.edu.cn*

Download English Version:

<https://daneshyari.com/en/article/8498174>

Download Persian Version:

<https://daneshyari.com/article/8498174>

[Daneshyari.com](https://daneshyari.com)