

# Accepted Manuscript

Apple cider vinegar boosted immunomodulatory and health promoting effects of *Lactobacillus casei* in common carp (*Cyprinus carpio*)

Roghieh Safari, Seyed Hossein Hoseinifar, Shabnam Nejadmoghaddam, Mohsen Khalili



PII: S1050-4648(17)30338-8

DOI: [10.1016/j.fsi.2017.06.017](https://doi.org/10.1016/j.fsi.2017.06.017)

Reference: YFSIM 4636

To appear in: *Fish and Shellfish Immunology*

Received Date: 27 December 2016

Revised Date: 3 June 2017

Accepted Date: 5 June 2017

Please cite this article as: Safari R, Hoseinifar SH, Nejadmoghaddam S, Khalili M, Apple cider vinegar boosted immunomodulatory and health promoting effects of *Lactobacillus casei* in common carp (*Cyprinus carpio*), *Fish and Shellfish Immunology* (2017), doi: 10.1016/j.fsi.2017.06.017.

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.

**Apple cider vinegar boosted immunomodulatory and health promoting effects of  
*Lactobacillus casei* in common carp (*Cyprinus carpio*)**

Roghieh Safari <sup>a</sup>, Seyed Hossein Hoseinifar<sup>a\*</sup>, Shabnam Nejadmoghaddam<sup>a</sup>, Mohsen Khalili<sup>b</sup>

<sup>a\*</sup> Department of Fisheries, Faculty of Fisheries and Environmental Sciences, Gorgan University  
of Agricultural Sciences and Natural Resources, Gorgan, Iran

<sup>b</sup> Medical Cellular & Molecular Research Center, Golestan University of Medical Science,  
Gorgan, Iran

\*Author for correspondence:

SH Hoseinifar, Department of Fisheries, Faculty of Fisheries and Environmental Sciences,  
Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran.

E-mail address: [hoseinifar@gau.ac.ir](mailto:hoseinifar@gau.ac.ir)

Tel.: +98 1732427040; fax: +98 1732245886.

Download English Version:

<https://daneshyari.com/en/article/5540866>

Download Persian Version:

<https://daneshyari.com/article/5540866>

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