

## Accepted Manuscript

Seawater-acclimation abates cold effects on Na<sup>+</sup>, K<sup>+</sup>-ATPase activity in gills of the juvenile milkfish, *Chanos chanos*

Chao-Kai Kang, Yi-Chi Chen, Chia-Hao Chang, Shu-Chuan Tsai, Tsung-Han Lee

PII: S0044-8486(15)00226-4  
DOI: doi: [10.1016/j.aquaculture.2015.04.022](https://doi.org/10.1016/j.aquaculture.2015.04.022)  
Reference: AQUA 631637

To appear in: *Aquaculture*

Received date: 18 October 2014  
Revised date: 25 March 2015  
Accepted date: 17 April 2015



Please cite this article as: Kang, Chao-Kai, Chen, Yi-Chi, Chang, Chia-Hao, Tsai, Shu-Chuan, Lee, Tsung-Han, Seawater-acclimation abates cold effects on Na<sup>+</sup>, K<sup>+</sup>-ATPase activity in gills of the juvenile milkfish, *Chanos chanos*, *Aquaculture* (2015), doi: [10.1016/j.aquaculture.2015.04.022](https://doi.org/10.1016/j.aquaculture.2015.04.022)

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.

**Seawater-acclimation abates cold effects on Na<sup>+</sup>, K<sup>+</sup>-ATPase activity in gills of the juvenile milkfish, *Chanos chanos***

**Chao-Kai Kang<sup>1</sup>, Yi-Chi Chen<sup>2</sup>, Chia-Hao Chang<sup>2</sup>, Shu-Chuan Tsai<sup>3</sup>, and  
Tsung-Han Lee<sup>2, 4\*</sup>**

<sup>1</sup> Tainan Hydraulics Laboratory, National Cheng Kung University, Tainan 709, Taiwan

<sup>2</sup> Department of Life Sciences, National Chung Hsing University, Taichung 402, Taiwan

<sup>3</sup> Institute of Life Science, Central Taiwan University of Science and Technology, Taichung 406, Taiwan

<sup>4</sup> Department of Biological Science and Technology, China Medical University, Taichung 404, Taiwan

\* Corresponding authors. T.-H. Lee can be contacted at the Department of Life Sciences, National Chung-Hsing University, Taichung 402, Taiwan. Tel.: +886 4 2285 6141; Fax: +886 4 2287 4740. E-mail addresses: thlee@email.nchu.edu.tw

**Key words:** cold tolerance, euryhaline, milkfish, Na<sup>+</sup>, K<sup>+</sup>-ATPase (NKA), heat shock protein 70 (HSP70)

Download English Version:

<https://daneshyari.com/en/article/8494604>

Download Persian Version:

<https://daneshyari.com/article/8494604>

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