Accepted Manuscript

Effect of high temperature stress on heat shock protein expression and antioxidant enzyme activity of two morphs of the mud crab Scylla paramamosain



Zi-Ming Liu, Xian-Long Zhu, Jun Lu, Wan-Jun Cai, Ya-Ping Ye, Yao-Ping Lv

PII:	S1095-6433(18)30065-5
DOI:	doi:10.1016/j.cbpa.2018.04.016
Reference:	CBA 10331
To appear in:	
Received date:	4 January 2018
Revised date:	19 April 2018
Accepted date:	27 April 2018

Please cite this article as: Zi-Ming Liu, Xian-Long Zhu, Jun Lu, Wan-Jun Cai, Ya-Ping Ye, Yao-Ping Lv, Effect of high temperature stress on heat shock protein expression and antioxidant enzyme activity of two morphs of the mud crab Scylla paramamosain. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Cba(2018), doi:10.1016/j.cbpa.2018.04.016

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.

ACCEPTED MANUSCRIPT

Effect of high temperature stress on heat shock protein expression and

antioxidant enzyme activity of two morphs of the mud crab Scylla

paramamosain

Zi-Ming Liu^a, Xian-Long Zhu^b, Jun Lu^c, Wan-Jun Cai^a, Ya-Ping Ye^a, Yao-Ping Lv^{a,*}

a: College of Ecology, Lishui University, 323000 Lishui City, Zhejiang Province, China

b: Aquaculture Technology Extending Stations, 323400 Songyang County, Lishui City,

Zhejiang Province, China

c: Aquaculture Technology Extending Stations, 323000 Lishui City, Zhejiang Province, China

* Corresponding author at: No. 1 Xueyuan Road, Lishui University, Lishui City, Zhejiang province, China.

E-mail address: yp.lv@hotmail.com

ABSTRACT

The present study aimed to investigate the effect rapid temperature change from moderate temperature to high temperatures on heat shock protein (HSP) expression and antioxidant enzyme activities in mud crabs. Two mud crabs, one with one spine on the outer margin of the carpus of cheliped (Sp1) and another with two spines (Sp2), were acclimated at 25°C and then transferred to a 33°C environment, and HSP expression and antioxidant enzyme activity were assessed. HSP70 and HSP60 were markedly up-regulated in the gills and hepatopancreas of

Download English Version:

https://daneshyari.com/en/article/8318097

Download Persian Version:

https://daneshyari.com/article/8318097

Daneshyari.com