

Accepted Manuscript

Effects of tributyltin on early life-stage, reproduction, and gonadal sex differentiation in Japanese medaka (*Oryzias latipes*)

Yoshifumi Horie, Takahiro Yamagishi, Yoko Shintaku, Taisen Iguchi, Norihisa Tatarazako



PII: S0045-6535(18)30552-6

DOI: 10.1016/j.chemosphere.2018.03.135

Reference: CHEM 21079

To appear in: *Chemosphere*

Received Date: 29 January 2018

Revised Date: 16 March 2018

Accepted Date: 19 March 2018

Please cite this article as: Yoshifumi Horie, Takahiro Yamagishi, Yoko Shintaku, Taisen Iguchi, Norihisa Tatarazako, Effects of tributyltin on early life-stage, reproduction, and gonadal sex differentiation in Japanese medaka (*Oryzias latipes*), *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.03.135

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.

1 **Effects of tributyltin on early life-stage, reproduction, and gonadal sex**

2 **differentiation in Japanese medaka (*Oryzias latipes*)**

4 **Yoshifumi Horie^{a,b}, Takahiro Yamagishi^a, Yoko Shintaku^a, Taisen Iguchi^c, and**

5 **Norihisa Tatarazako^{a,d}**

7 *^aCenter for Health and Environmental Risk Research, National Institute for*

8 *Environmental Studies, 16-2 Onogawa, Tsukuba, Ibaraki 305-8506, Japan*

9 *^bFaculty of Bioresource Sciences, Akita Prefectural University, 241-438 Kaidobata-*

10 *Nishi, Nakano Simoshinjo, Akita 010-0195, Japan*

11 *^cNanobioscience, Yokohama City University, 22-2 Seto, Kanazawa-ku, Yokohama 236-*

12 *0027, Japan*

13 *^dDepartment of Science and Technology for Biological Resources and Environment,*

14 *Graduate School of Agriculture, Ehime University, Tarumi 3-5-7, Matsuyama 790-*

15 *8566, Japan*

16 **Correspondence to: Norihisa Tatarazako, PhD, Faculty of Agriculture, Ehime*

17 *University, Matsuyama, Ehime, 790-8577, Japan*

18 *Tel: +81-89-946-9902*

19 *E-mail: tatarazako.norihisa.wn@ehime-u.ac.jp*

Download English Version:

<https://daneshyari.com/en/article/8851301>

Download Persian Version:

<https://daneshyari.com/article/8851301>

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