## Accepted Manuscript

Title: Endocrine disruptors affect larval zebrafish behavior: Testing potential mechanisms and comparisons of behavioral sensitivity to alternative biomarkers

Authors: Thomas W.K. Fraser, Abdolrahman Khezri, Anna M. Lewandowska-Sabat, Theodore Henry, Erik Ropstad

PII: S0166-445X(17)30280-1

DOI: https://doi.org/10.1016/j.aquatox.2017.10.002

Reference: AQTOX 4764

To appear in: Aquatic Toxicology

Received date: 19-7-2017 Revised date: 29-9-2017 Accepted date: 4-10-2017

Please cite this article as: Fraser, Thomas W.K., Khezri, Abdolrahman, Lewandowska-Sabat, Anna M., Henry, Theodore, Ropstad, Erik, Endocrine disruptors affect larval zebrafish behavior: Testing potential mechanisms and comparisons of behavioral sensitivity to alternative biomarkers. Aquatic Toxicology https://doi.org/10.1016/j.aquatox.2017.10.002

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.



Endocrine disruptors affect larval zebrafish behavior: Testing potential mechanisms and

comparisons of behavioral sensitivity to alternative biomarkers

Thomas W K Fraser<sup>a,\*</sup>, Abdolrahman Khezri<sup>b</sup>, Anna M Lewandowska-Sabat<sup>b</sup>, Theodore Henry<sup>c</sup>,

Erik Ropstada

<sup>a</sup> Department of Production Animal Clinical Sciences, Faculty of Veterinary Medicine,

Norwegian University of Life Sciences, Oslo, Norway

<sup>b</sup> Department of Basic Science and Aquatic Medicine, Faculty of Veterinary Medicine,

Norwegian University of Life Sciences, Oslo, Norway

<sup>c</sup> Centre for Marine Biodiversity and Biotechnology, Heriot-Watt University, Edinburgh, United

Kingdom

\* To whom correspondence should be addressed at Department of Production Animal Clinical

Sciences, Norwegian University of Life Sciences, Ullevålsveien 72, 0033, Oslo, Norway. E-

mail: thomas.fraser@nmbu.no.

Running title: Endocrine disruption in zebrafish larvae

**Highlights** 

Locomotor behavior appears less sensitive as an indicator of endocrine disruption than

molecular methods

1

## Download English Version:

## https://daneshyari.com/en/article/8883934

Download Persian Version:

https://daneshyari.com/article/8883934

<u>Daneshyari.com</u>