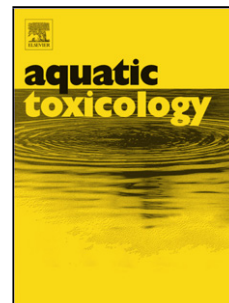


Accepted Manuscript

Title: Epigenetic, histopathological and transcriptomic effects following exposure to depleted uranium in adult zebrafish and their progeny

Author: Kewin Gombeau Jean-Paul Bourdineaud Jean-Luc Ravanat Olivier Armant Virginie Camilleri Isabelle Cavalie Magali Floriani Christelle Adam-Guillermin



PII: S0166-445X(16)30355-1
DOI: <http://dx.doi.org/doi:10.1016/j.aquatox.2016.12.004>
Reference: AQTOX 4547

To appear in: *Aquatic Toxicology*

Received date: 23-8-2016
Revised date: 29-11-2016
Accepted date: 5-12-2016

Please cite this article as: Gombeau, Kewin, Bourdineaud, Jean-Paul, Ravanat, Jean-Luc, Armant, Olivier, Camilleri, Virginie, Cavalie, Isabelle, Floriani, Magali, Adam-Guillermin, Christelle, Epigenetic, histopathological and transcriptomic effects following exposure to depleted uranium in adult zebrafish and their progeny. *Aquatic Toxicology* <http://dx.doi.org/10.1016/j.aquatox.2016.12.004>

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.

Epigenetic, histopathological and transcriptomic effects following exposure to depleted uranium in adult zebrafish and their progeny

*Kewin Gombeau^a, Jean-Paul Bourdineaud^b, Jean-Luc Ravanat^{c, d}, Olivier Armant^a, Virginie Camilleri^a, Isabelle Cavalie^a, Magali Floriani^a and Christelle Adam-Guillermin^{a, *}*

^a Institut de Radioprotection et de Sûreté Nucléaire (IRSN), PRP-ENV/SERIS/LECO, Cadarache, Saint-Paul-lez-Durance 13115, France.

e-mail: kewin.gombeau@gmail.com; virginie.camilleri@irsn.fr; isabelle.cavalie@irsn.fr; magali.floriani@irsn.fr; christelle.adam-guillermin@irsn.fr; olivier.armant@irsn.fr;

^b Université de Bordeaux, CNRS, UMR 5805, EPOC, 33400 Talence, France

e-mail: jean-paul.bourdineaud@u-bordeaux.fr;

^c Univ. Grenoble Alpes, INAC-SyMMES, 38000 Grenoble, France

^d CEA, INAC-SCIB Laboratoire des Lésions des Acides Nucléiques, 38000 Grenoble, France

e-mail: jean-luc.ravanat@cea.fr;

***Corresponding author**

Phone: + 33442199401

e-mail: christelle.adam-guillermin@irsn.fr;

Highlights:

- The parental DU-exposure induced a significant transfer of uranium into eggs
- Du-exposed progeny exhibited a significant 2-fold increased DNA methylation level
- The transcriptomic response was deeply modified in the DU-exposed organisms
- DU-exposed adult and offspring presented significant histopathological injuries

Download English Version:

<https://daneshyari.com/en/article/5764153>

Download Persian Version:

<https://daneshyari.com/article/5764153>

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