

# Accepted Manuscript

Effect of cadmium accumulation on green algae *Chlamydomonas reinhardtii* and acid-tolerant *Chlamydomonas* CPCC 121

Mahshid Samadani, François Perreault, Abdallah Oukarroum, David Dewez



PII: S0045-6535(17)31589-8

DOI: [10.1016/j.chemosphere.2017.10.017](https://doi.org/10.1016/j.chemosphere.2017.10.017)

Reference: CHEM 20039

To appear in: *ECSN*

Received Date: 28 June 2017

Revised Date: 26 September 2017

Accepted Date: 2 October 2017

Please cite this article as: Samadani, M., Perreault, Franç., Oukarroum, A., Dewez, D., Effect of cadmium accumulation on green algae *Chlamydomonas reinhardtii* and acid-tolerant *Chlamydomonas* CPCC 121, *Chemosphere* (2017), doi: 10.1016/j.chemosphere.2017.10.017.

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.

## Effect of Cadmium Accumulation on Green Algae *Chlamydomonas reinhardtii* and Acid-Tolerant *Chlamydomonas* CPCC 121

Mahshid Samadani<sup>1</sup>, François Perreault<sup>2</sup>, Abdallah Oukarroum<sup>3</sup>, David Dewez<sup>1\*</sup>

<sup>1</sup>Laboratory of Environmental & Analytical Biochemistry of Contaminants, Department of Chemistry, University of Quebec in Montreal, CP 8888, succ. Centre-Ville, Montreal, QC, Canada H3C 3P8

<sup>2</sup>Present address: School of Sustainable Engineering and the Built Environment, Arizona State University, Tempe, Arizona 85287, United States.

<sup>3</sup>Present address: Mohammed VI Polytechnic University, School of Agriculture, Fertilizing and Environment, Ben Guerir, Morocco.

\*Corresponding author: David Dewez, Département de chimie, Université du Québec à Montréal, CP 8888, succ. Centre-Ville, Montréal, QC, Canada, H3C 3P8. Tel.: +1 514 987 3000, ext. 3278. E-mail address: dewez.david@uqam.ca.

**Abbreviations:** TEM, transmission electron microscopy; EDX, energy-dispersive X-ray spectroscopy; HSM, high salt medium; MAM, modified acid medium; CELLULAR DIVISION, relative cell division rate; EDTA, ethylene diamine tetraacetic acid; FAAS, flame atomic absorption spectroscopy; FSC, forward light scatter; SSC, side light scatter; FDA, fluorescein diacetate; PSII, photosystem II; PI, performance index of PSII; Q<sub>A</sub>, quinone A.

Download English Version:

<https://daneshyari.com/en/article/8852897>

Download Persian Version:

<https://daneshyari.com/article/8852897>

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