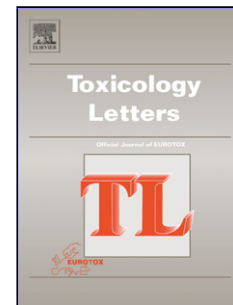


Accepted Manuscript

Title: Melamine, beyond the kidney: A ubiquitous endocrine disruptor and neurotoxicant?

Authors: Ashley L. Bolden, Johanna R. Rochester, Carol F. Kwiatkowski



PII: S0378-4274(17)31139-6
DOI: <http://dx.doi.org/doi:10.1016/j.toxlet.2017.07.893>
Reference: TOXLET 9906

To appear in: *Toxicology Letters*

Received date: 15-2-2017
Revised date: 28-6-2017
Accepted date: 21-7-2017

Please cite this article as: Bolden, Ashley L., Rochester, Johanna R., Kwiatkowski, Carol F., Melamine, beyond the kidney: A ubiquitous endocrine disruptor and neurotoxicant?. *Toxicology Letters* <http://dx.doi.org/10.1016/j.toxlet.2017.07.893>

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.

Title:

Melamine, beyond the kidney: a ubiquitous endocrine disruptor and neurotoxicant?

Authors:

Ashley L. Bolden¹

Johanna R. Rochester¹

Carol F. Kwiatkowski^{1,2}

¹The Endocrine Disruption Exchange (TEDX), www.tedx.org, Paonia Colorado, United States of America

²Department of Integrative Physiology, University of Colorado, Boulder, Colorado, United States of America

Corresponding Author

Ashley L. Bolden (ashleybolden@tedx.org)

ABSTRACT

Melamine is commonly used in a variety of consumer products such as furniture, dining ware, and food utensils. The chemical infamously gained worldwide attention by its illegal addition to a variety of foodstuffs in order to falsify protein content, which led to serious, sometimes fatal, health impacts in children and pets. This resulted in a large amount of published primary studies and reviews of the impacts of melamine exposure on kidney function. However, a growing body of literature suggests that melamine may have impacts beyond renal dysfunction. We conducted a scoping review of this literature which yielded more than 40 studies with human, animal, and *in vitro* findings. Neurological impacts, reproductive function, and anthropometric outcomes were identified as possible candidates for systematic review based on evidence stream and replication of endpoints. The results of this analysis provide a basis for prioritizing future research on health impacts associated with melamine exposure.

Download English Version:

<https://daneshyari.com/en/article/5562035>

Download Persian Version:

<https://daneshyari.com/article/5562035>

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