

Accepted Manuscript

Title: A single subconvulsant dose of domoic acid at mid-gestation does not cause temporal lobe epilepsy in mice

Authors: Fanny Demars, Kristen Clark, Megan S. Wyeth, Emily Abrams, Paul S. Buckmaster



PII: S0161-813X(18)30097-4
DOI: <https://doi.org/10.1016/j.neuro.2018.04.001>
Reference: NEUTOX 2318

To appear in: *NEUTOX*

Received date: 5-1-2018
Revised date: 28-3-2018
Accepted date: 2-4-2018

Please cite this article as: Demars F, Clark K, Wyeth MS, Abrams E, Buckmaster PS, A single subconvulsant dose of domoic acid at mid-gestation does not cause temporal lobe epilepsy in mice, *Neurotoxicology* (2018), <https://doi.org/10.1016/j.neuro.2018.04.001>

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.

A single subconvulsant dose of domoic acid at mid-gestation
does not cause temporal lobe epilepsy in mice

Fanny Demars^{a,1}, Kristen Clark^{a,2}, Megan S. Wyeth^a, Emily Abrams^a,
and Paul S. Buckmaster^{a,b}

Departments of ^aComparative Medicine and ^bNeurology & Neurological Sciences,
School of Medicine, Stanford University, Stanford, CA

¹VetAgro Sup, School of Veterinary Medicine, Lyon, France
Paris Descartes University, Paris, France

²College of Veterinary Medicine, Oklahoma State University, Stillwater, OK

Corresponding author

Paul Buckmaster
300 Pasteur Drive
R321 Edwards Building
Department of Comparative Medicine
Stanford University
Stanford, CA 94305
650-498-4774
650-498-5085 (fax)

Highlights

- Low-dose *in utero* exposure to DA has been proposed to cause temporal lobe epilepsy
- We replicated and extended a previous mouse study
- A subconvulsive dose of DA at mid-gestation did not cause epilepsy to develop in mice
- A subconvulsive dose of DA at mid-gestation did not cause TLE neuropathology in mice
- Spontaneous epilepsy in female FVB mice is characterized

psb@stanford.edu

Download English Version:

<https://daneshyari.com/en/article/8550139>

Download Persian Version:

<https://daneshyari.com/article/8550139>

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