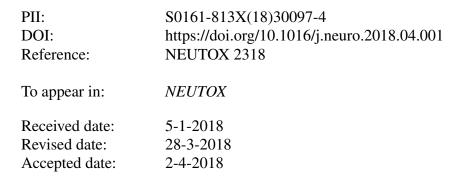
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ACCEPTED MANUSCRIPT

A single subconvulsant dose of domoic acid at mid-gestation

does not cause temporal lobe epilepsy in mice

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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 <u>Corresponding author</u> 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

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