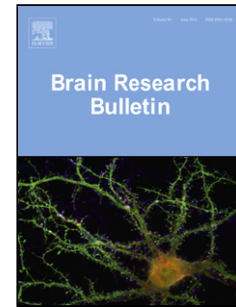


Accepted Manuscript

Title: Environmental enrichment attenuates behavioral abnormalities in valproic acid-exposed autism model mice

Authors: Hiroshi Yamaguchi, Yuta Hara, Yukio Ago, Erika Takano, Shigeru Hasebe, Takanobu Nakazawa, Hitoshi Hashimoto, Toshio Matsuda, Kazuhiro Takuma



PII: S0166-4328(17)30566-1
DOI: <http://dx.doi.org/doi:10.1016/j.bbr.2017.06.035>
Reference: BBR 10954

To appear in: *Behavioural Brain Research*

Received date: 31-3-2017
Revised date: 14-6-2017
Accepted date: 20-6-2017

Please cite this article as: Yamaguchi Hiroshi, Hara Yuta, Ago Yukio, Takano Erika, Hasebe Shigeru, Nakazawa Takanobu, Hashimoto Hitoshi, Matsuda Toshio, Takuma Kazuhiro. Environmental enrichment attenuates behavioral abnormalities in valproic acid-exposed autism model mice. *Behavioural Brain Research* <http://dx.doi.org/10.1016/j.bbr.2017.06.035>

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.

Environmental enrichment attenuates behavioral abnormalities in valproic acid-exposed autism model mice

Hiroshi Yamaguchi^{a,1}, Yuta Hara^{b,1}, Yukio Ago^{b,1}, Erika Takano^a, Shigeru Hasebe^c,
Takanobu Nakazawa^{b,c}, Hitoshi Hashimoto^{b,d,e}, Toshio Matsuda^a, and Kazuhiro
Takuma^{c,d,*}

^aLaboratory of Medicinal Pharmacology, Graduate School of Pharmaceutical Sciences,
Osaka University, 1-6 Yamadaoka, Suita, Osaka 565-0871, Japan

^bLaboratory of Molecular Neuropharmacology, Graduate School of Pharmaceutical
Sciences, Osaka University, Suita, Osaka 565-0871, Japan

^cDepartment of Pharmacology, Graduate School of Dentistry, Osaka University, Suita,
Osaka 565-0871, Japan

^dUnited Graduate School of Child Development, Osaka University, Kanazawa
University, Hamamatsu University School of Medicine, Chiba University and
University of Fukui, Suita, Osaka 565-0871, Japan

^eDivision of Bioscience, Institute for Dataability Science, Osaka University, Suita,
Osaka 565-0871, Japan

Download English Version:

<https://daneshyari.com/en/article/5735360>

Download Persian Version:

<https://daneshyari.com/article/5735360>

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