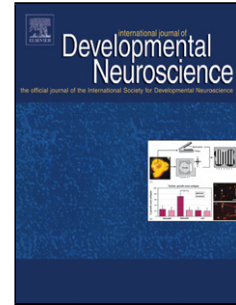


Accepted Manuscript

Title: Fetal growth-retardation and brain-sparing by malnutrition are associated to changes in neurotransmitters profile

Authors: C. García-Contreras, D. Valent, M. Vázquez-Gómez, L. Arroyo, B. Isabel, S. Astiz, A. Bassols, A. González-Bulnes



PII: S0736-5748(16)30335-5
DOI: <http://dx.doi.org/doi:10.1016/j.ijdevneu.2017.01.005>
Reference: DN 2153

To appear in: *Int. J. Devl Neuroscience*

Received date: 8-11-2016
Revised date: 1-12-2016
Accepted date: 11-1-2017

Please cite this article as: García-Contreras, C., Valent, D., Vázquez-Gómez, M., Arroyo, L., Isabel, B., Astiz, S., Bassols, A., González-Bulnes, A., Fetal growth-retardation and brain-sparing by malnutrition are associated to changes in neurotransmitters profile. *International Journal of Developmental Neuroscience* <http://dx.doi.org/10.1016/j.ijdevneu.2017.01.005>

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.

Fetal growth-retardation and brain-sparing by malnutrition are associated to changes in neurotransmitters profile

C. García-Contreras¹, D. Valent², M. Vázquez-Gómez³, L. Arroyo², B. Isabel³,
S. Astiz¹, A. Bassols² and A. González-Bulnes^{1,*}

¹INIA, Madrid, Spain.

²Faculty of Veterinary, UAB, Barcelona, Spain.

³Faculty of Veterinary, UCM, Madrid, Spain.

*Corresponding author (bulnes@inia.es)

Highlights

- Fetal synthesis and use of neurotransmitters increase with time of pregnancy
- Fetal sex and body development modulate neurotransmitters levels.
- Fetal growth restriction affects both catecholamines and indoleamines pathways.

Abstract

The present study assesses possible changes in the levels of different neurotransmitters (catecholamines and indoleamines) in fetuses affected by nutrient shortage. Hence, we

Download English Version:

<https://daneshyari.com/en/article/5585757>

Download Persian Version:

<https://daneshyari.com/article/5585757>

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