Accepted Manuscript

Maternal folic acid supplementation modulates DNA methylation and gene expression in the rat offspring in a gestation period-dependent and organ-specific manner

Anna Ly, Lisa Ishiguro, Denise Kim, David Im, Kyoung-Jin Sohn, Young-In Kim

PII: S0955-2863(16)30038-9

DOI: doi: 10.1016/j.jnutbio.2016.03.018

Reference: JNB 7579

To appear in: The Journal of Nutritional Biochemistry

Received date: 13 October 2015 Revised date: 28 March 2016 Accepted date: 31 March 2016



Please cite this article as: Ly Anna, Ishiguro Lisa, Kim Denise, Im David, Sohn Kyoung-Jin, Kim Young-In, Maternal folic acid supplementation modulates DNA methylation and gene expression in the rat offspring in a gestation period-dependent and organ-specific manner, *The Journal of Nutritional Biochemistry* (2016), doi: 10.1016/j.jnutbio.2016.03.018

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.

ACCEPTED MANUSCRIPT

JNB-15-654 Revision 1

Maternal folic acid supplementation modulates DNA methylation and gene expression in the rat offspring in a gestation period-dependent and organ-specific manner

Anna Ly, ^{1,5} Lisa Ishiguro, ^{2,5} Denise Kim, ^{2,5} David Im, ^{1,5} Sung-Eun Kim, ^{2,5} Kyoung-Jin Sohn, ^{1,5} Ruth Croxford, ³ Young-In Kim ^{1,2,4,5}

¹Departments of Medicine, University of Toronto, Toronto, Ontario, Canada, M5G 2C4;

²Department of Nutritional Sciences, University of Toronto, Ontario, Canada, M5S 3E2;

³Freelance statistics consultant, Toronto, Ontario, Canada; ⁴Division of Gastroenterology,

Department of Medicine, St. Michael's Hospital, Toronto, Ontario, Canada, M5B 1W8; 5 Keenan

Research Center for Biomedical Science of St. Michael's Hospital, Toronto, Ontario, Canada,

M5B 1C6

Corresponding Author: Young-In Kim, MD, Division of Gastroenterology, St. Michael's Hospital, 16CC-038, 30 Bond Street, Toronto, Ontario, Canada, M5B 1W8; Phone: 416-847-1750; Fax: 416-864-5994; E-mail: youngin.kim@utoronto.ca

Running Title: Maternal folic acid and DNA methylation in newborns

Funding Source: Canadian Institutes of Health Research (Grant # 14126; to Y-IK)

Keywords: DNA methylation, gene expression, folate, folic acid, maternal nutrition

Download English Version:

https://daneshyari.com/en/article/8336571

Download Persian Version:

https://daneshyari.com/article/8336571

<u>Daneshyari.com</u>