## Accepted Manuscript

The combination of maternal and offspring high-fat diets causes marked oxidative stress and development of metabolic syndrome in mouse offspring

Junya Ito, Kiyotaka Nakagawa, Shunji Kato, Taiki Miyazawa, Fumiko Kimura, Teruo Miyazawa

PII:	S0024-3205(16)30139-4
DOI:	doi: 10.1016/j.lfs.2016.02.089
Reference:	LFS 14774

To appear in: Life Sciences

Received date:17 July 2015Revised date:15 February 2016Accepted date:24 February 2016



Please cite this article as: Ito Junya, Nakagawa Kiyotaka, Kato Shunji, Miyazawa Taiki, Kimura Fumiko, Miyazawa Teruo, The combination of maternal and offspring high-fat diets causes marked oxidative stress and development of metabolic syndrome in mouse offspring, *Life Sciences* (2016), doi: 10.1016/j.lfs.2016.02.089

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

Life Sciences (Full length article)

The combination of maternal and offspring high-fat diets causes marked oxidative stress and development of metabolic syndrome in mouse offspring

Junya Ito<sup>a</sup>, Kiyotaka Nakagawa<sup>a\*</sup>, Shunji Kato<sup>b</sup>, Taiki Miyazawa<sup>c</sup>, Fumiko Kimura<sup>a</sup>, Teruo Miyazawa<sup>a</sup>

<sup>a</sup> Food and Biodynamic Chemistry Laboratory, Graduate School of Agricultural Science, Tohoku University, Sendai, 981-8555, Japan

<sup>b</sup> Division of Endocrinology and Metabolism, Department of Medicine, Nippon Medical School, Tokyo 113-8603, Japan

<sup>c</sup> Vascular Biology Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, Massachusetts 02111, USA

Running title: Effect of maternal diet on oxidative stress of offspring

Key words: PCOOH; Oxidative stress; Fetal programming model; Gpx4; metabolic syndrome

\*Corresponding Author

Kiyotaka Nakagawa, Ph.D.

Food & Biodynamic Chemistry Laboratory,

Graduate School of Agricultural Science, Tohoku University

1-1 Tsutsumidori-amamiyamachi, Aoba-Ku, Sendai 981-8555, Japan

Phone: +81-22-717-8906 Fax: +81-22-717-8905

E-mail: nkgw@m.tohoku.ac.jp

Download English Version:

## https://daneshyari.com/en/article/5841360

Download Persian Version:

https://daneshyari.com/article/5841360

Daneshyari.com