

Accepted Manuscript

Associations of cord blood metabolites with perinatal characteristics, newborn anthropometry, and cord blood hormones in Project Viva

Wei Perng, Sheryl L. Rifas-Shiman, Scott McCulloch, Leda Chatzi, Christos Mantzoros, Marie-France Hivert, Emily Oken

PII: S0026-0495(17)30185-3
DOI: doi: [10.1016/j.metabol.2017.07.001](https://doi.org/10.1016/j.metabol.2017.07.001)
Reference: YMETA 53617

To appear in: *Metabolism*

Received date: 14 March 2017
Accepted date: 7 July 2017



Please cite this article as: Perng Wei, Rifas-Shiman Sheryl L., McCulloch Scott, Chatzi Leda, Mantzoros Christos, Hivert Marie-France, Oken Emily, Associations of cord blood metabolites with perinatal characteristics, newborn anthropometry, and cord blood hormones in Project Viva, *Metabolism* (2017), doi: [10.1016/j.metabol.2017.07.001](https://doi.org/10.1016/j.metabol.2017.07.001)

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.

Associations of cord blood metabolites with perinatal characteristics, newborn anthropometry, and cord blood hormones in Project Viva

Wei Perng,^a Sheryl L. Rifas-Shiman,^b Scott McCulloch,^c Leda Chatzi,^{d,e,f} Christos Mantzoros^g, Marie-France Hivert,^b and Emily Oken^{b,h}

^a Department of Nutritional Sciences, Department of Epidemiology, University of Michigan School of Public Health, Ann Arbor, MI.

^b Division of Chronic Disease Research Across the Lifecourse, Department of Population Medicine, Harvard Medical School/Harvard Pilgrim Health Care Institute, Boston, MA.

^c Metabolon, Inc., Durham, NC, USA.

^d Department of Social Medicine, Faculty of Medicine University of Crete, Heraklion, Greece.

^e Department of Preventive Medicine, Keck School of Medicine, University of South California, Los Angeles, CA

^f Department of Genetics & Cell Biology, Faculty of Health, Medicine and Life Sciences, Maastricht University, Maastricht, Netherlands

^g Division of Endocrinology, Diabetes, and Metabolism, Department of Medicine, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, USA

^h Department of Nutrition, Harvard T.H. Chan School of Public Health, Boston, MA.

Corresponding author: Wei Perng (perngwei@umich.edu)

1415 Washington Heights, Room 1860 SPH1
Ann Arbor, MI 48109-2029

Conflicts of interest: Scott McCulloch is an employee of Metabolon, Inc.

Word count: 5479

Tables: 4

Figures: 0

Supplemental material: 3 tables

Abbreviations: **BCAA:** branched-chain amino acids, **BW/GA:** birthweight-for-gestational age z-score, **BMI:** body mass index, **IGF:** insulin-like growth factor, **IGFBP:** insulin-like growth factor binding protein,

Key words: birth size, birthweight-for-gestational age z-score, IGF-1, IGF-2, IGFBP-3, cord blood leptin, metabolomics

Download English Version:

<https://daneshyari.com/en/article/5588338>

Download Persian Version:

<https://daneshyari.com/article/5588338>

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