Contents

Articles

ISSUES AND OPINIONS
Should We Restrict Vitamin A Intake, a Minor Contributor to Plasma Retinol Turnover, When Using Retinol Isotope Dilution Equations to Estimate an Individual’s Vitamin A Status, or Should Vitamin A Balance Be Maintained?
Jennifer Lynn Ford, Joanne Balmer Green, and Michael H Green

RECENT ADVANCES IN NUTRITIONAL SCIENCES
Biotin: From Nutrition to Therapeutics
Donald M Mock

CRITICAL REVIEW
Amino Acid Absorption in the Large Intestine of Humans and Porcine Models
Nikkie van der Wielen, Paul J Moughan, and Marco Mensink

GENOMICS, PROTEOMICS, AND METABOLOMICS
Early Postnatal Diets Affect the Bioregional Small Intestine Microbiome and Ileal Metabolome in Neonatal Pigs
Brian D Piccolo, Kelly E Mercer, Sudeepa Bhattacharyya, Anne K Bowlin, Manish K Saraf, Lindsay Pack, Sree V Chintapalli, Kartik Shankar, Sean H Adams, Thomas M Badger, and Laxmi Yeruva

NUTRIENT PHYSIOLOGY, METABOLISM, AND NUTRIENT-NUTRIENT INTERACTIONS
Ablation of Arginase II Spares Arginine and Abolishes the Arginine Requirement for Growth in Male Mice
Inka C Didelija, Mahmoud A Mohammad, and Juan C Marini

NUTRITION AND DISEASE
Inclusion of Almonds in a Cholesterol-Lowering Diet Improves Plasma HDL Subspecies and Cholesterol Efflux to Serum in Normal-Weight Individuals with Elevated LDL Cholesterol
Claire E Berryman, Jennifer A Fleming, and Penny M Kris-Etherton
Fish Oil Contaminated with Persistent Organic Pollutants Induces Colonic Aberrant Crypt Foci Formation and Reduces Antioxidant Enzyme Gene Expression in Rats
Mee Young Hong, Eunha Hoh, Brian Kang, Rebecca DeHamer, Jin Young Kim, and Jan Lumibao
High Iron Stores in the Low Malaria Season Increase Malaria Risk in the High Transmission Season in a Prospective Cohort of Rural Zambian Children
Maxwell A Barffour, Kerry J Schulze, Christian L Coles, Justin Chileshe, Ng’andumwe Kalungwana, Margia Arguello, Ward Siamusantu, William J Moss, Keith P West Jr., and Amanda C Palmer
The Nitrogen Moieties of Dietary Nonessential Amino Acids Are Distinctively Metabolized in the Gut and Distributed to the Circulation in Rats

Hidehiro Nakamura, Yasuko Kawamata, Tomomi Kuwahara, and Ryosei Sakai

Smell and Taste Dysfunction Is Associated with Higher Serum Total Cholesterol Concentrations in Chinese Adults

Zhe Huang, Shue Huang, Hongliang Cong, Zheng Li, Junjuan Li, Kathleen L Keller, Gregory C Shearer, Penny M Kris-Etherton, Shouling Wu, and Xiang Gao

After Mexico Implemented a Tax, Purchases of Sugar-Sweetened Beverages Decreased and Water Increased: Difference by Place of Residence, Household Composition, and Income Level

M Arantxa Colchero, Mariana Molina, and Carlos M Guerrero-López

High Serum Phospholipid Dihomo-γ-Linoleic Acid Concentration and Low Δ5-Desaturase Activity Are Associated with Increased Risk of Type 2 Diabetes among Japanese Adults in the Hitachi Health Study

Shamima Akter, Kayo Kurotani, Masao Sato, Takuya Hayashi, Keisuke Kuwahara, Yumi Matsushita, Tohru Nakagawa, Maki Konishi, Toru Honda, Shuichiro Yamamoto, Takeshi Hayashi, Mitsuhiro Noda, and Tetsuya Mizoue

An Empirical Dietary Inflammatory Pattern Score Enhances Prediction of Circulating Inflammatory Biomarkers in Adults

Fred K Tabung, Stephanie A Smith-Warner, Jorge E Chavarro, Teresa T Fung, Frank B Hu, Walter C Willett, and Edward L Giovannucci

A Cross-Sectional Survey in Rural Bihar, India, Indicates That Nutritional Status, Diet, and Stimulation Are Associated with Motor and Mental Development in Young Children

Leila M Larson, Melissa F Young, Usha Ramakrishnan, Amy Webb Girard, Pankaj Verma, Indrajit Chaudhuri, Sridhar Srikantiah, and Reynaldo Martorell

Daily Consumption of Lipid-Based Nutrient Supplements Containing 250 μg Iodine Does Not Increase Urinary Iodine Concentrations in Pregnant and Postpartum Women in Bangladesh

Malay K Mridha, Susana L Matias, Rina Rani Paul, Sohrab Hussain, Md Showkat Ali Khan, Zakia Siddiqui, Barkat Ullah, Mostofa Sarker, Mokbul Hossain, Rebecca T Young, Charles D Arnold, and Kathryn G Dewey

Preconception Micronutrient Supplementation with Iron and Folic Acid Compared with Folic Acid Alone Affects Linear Growth and Fine Motor Development at 2 Years of Age: A Randomized Controlled Trial in Vietnam

Phuong H Nguyen, Ines Gonzalez-Casanova, Melissa F Young, Truong Viet Truong, Hue Hoang, Huong Nguyen, Son Nguyen, Ann M DiGirolamo, Reynaldo Martorell, and Usha Ramakrishnan

From the American Society for Nutrition

Calendar of Events

Cover image: In this issue, Barffour et al. (pages 1531–6) examine the impact of iron stores on malaria risk in rural Zambian children. Photo credit: Copyright © Anton_Ivanov / Shutterstock.com.