

Contents

Articles

■ COMMENTARY

Lessons from the Bovine Genome: Implications for Human Nutrition and Research

Danielle G. Lemay, Monique Rijnkels, and J. Bruce German 1271

■ BIOCHEMICAL, MOLECULAR, AND GENETIC MECHANISMS

Telomere Length in Peripheral Blood Mononuclear Cells Is Associated with Folate Status in Men

Ligi Paul, Marco Cattaneo, Armando D'Angelo, Francesca Sampietro, Isabella Fermo, Cristina Razzari, Gessica Fontana, Nindra Eugene, Paul F. Jacques, and Jacob Selhub 1273

■ NUTRIENT PHYSIOLOGY, METABOLISM, AND NUTRIENT-NUTRIENT INTERACTIONS

Dietary Supplementation of L-Arginine and Conjugated Linoleic Acid Reduces Retroperitoneal Fat Mass and Increases Lean Body Mass in Rats

Jennifer L. Nall, Guoyao Wu, Kyoung Hoon Kim, Chang Weon Choi, and Stephen B. Smith 1279

Impaired Ghrelin Response after High-Fat Meals Is Associated with Decreased Satiety in Obese and Lean Chinese Young Adults

Nianhong Yang, Xiaoli Liu, Eric L. Ding, Mingjia Xu, Songwen Wu, Liegang Liu, Xiufa Sun, and Frank B. Hu 1286

Creatine Synthesis Is a Major Metabolic Process in Neonatal Piglets and Has Important Implications for Amino Acid Metabolism and Methyl Balance

John T. Brosnan, Enoke P. Wijekoon, Lori Warford-Woolgar, Nathalie L. Trottier, Margaret E. Brosnan, Janet A. Brunton, and Robert F. P. Bertolo 1292

Dietary L-Homoserine Spares Threonine in Chicks

Kasey I. Bryant, Ryan N. Dilger, Carl M. Parsons, and David H. Baker 1298

Intestinal Physiology and Peptidase Activity in Male Pigs Are Modulated by Consumption of Corn Culture Extracts Containing Fumonisin

Martin Lessard, Gaëlle Boudry, Bernard Sève, Isabelle P. Oswald, and Jean-Paul Lallès 1303

Diet Calcium Level but Not Calcium Supplement Particle Size Affects Bone Density and Mechanical Properties in Ovariectomized Rats

Mohammad Shahnazari, Berdine R. Martin, Leecole L. Legette, Pamela J. Lachcik, Jo Welch, and Connie M. Weaver 1308

The Bone Morphogenetic Protein Signaling Pathway Is Upregulated in a Mouse Model of Total Parenteral Nutrition

Chaojun Zhang, Yongjia Feng, Hua Yang, Hiroyuki Koga, and Daniel H. Teitelbaum 1315

α -Lactalbumin Hydrolysate Stimulates Glucagon-Like Peptide-2 Secretion and Small Intestinal Growth in Suckling Rats

Hirohisa Izumi, Satoshi Ishizuka, Ayako Inafune, Tohru Hira, Kazuhiro Ozawa, Takashi Shimizu, Mitsunori Takase, and Hiroshi Hara 1322

Proapoptotic Effects of Dietary (n-3) Fatty Acids Are Enhanced in Colonocytes of Manganese-Dependent Superoxide Dismutase Knockout Mice

Yang-Yi Fan, Yang Zhan, Harold M. Aukema, Laurie A. Davidson, Lan Zhou, Evelyn Callaway, Yanan Tian, Brad R. Weeks, Joanne R. Lupton, Shinya Toyokuni, and Robert S. Chapkin 1328

Regular Consumption of Nuts Is Associated with a Lower Risk of Cardiovascular Disease in Women with Type 2 Diabetes

Tricia Y. Li, Aoife M. Brennan, Nicole M. Wedick, Christos Mantzoros, Nader Rifai, and Frank B. Hu 1333

Quercetin Administration Ameliorates Pulmonary Complications of Cirrhosis in Rats

Juliana Tieppo, María J. Cuevas, Rafael Vercelesino, María J. Tuñón, and Norma P. Marroni, and Javier González-Gallego 1339

Conjugated Linoleic Acids Reduce Body Fat in Healthy Postmenopausal Women

Marianne Raff, Tine Tholstrup, Søren Toubro, Jens M. Bruun, Pia Lund, Ellen M. Straarup, Robin Christensen, Maria B. Sandberg, and Susanne Mandrup 1347

■ NUTRIENT REQUIREMENTS AND OPTIMAL NUTRITION

Dietary Echium Oil Increases Tissue (n-3) Long-Chain Polyunsaturated Fatty Acids without Elevating Hepatic Lipid Concentrations in Premature Neonatal Rats

Qing Yang and T. Michael O'Shea 1353

■ NUTRITIONAL EPIDEMIOLOGY

A Traditional Rice and Beans Pattern Is Associated with Metabolic Syndrome in Puerto Rican Older Adults

Sabrina E. Noel, P. K. Newby, Jose M. Ordovas, and Katherine L. Tucker 1360

Consuming Functional Foods Enriched with Plant Sterol or Stanol Esters for 85 Weeks Does Not Affect Neurocognitive Functioning or Mood in Statin-Treated Hypercholesterolemic Individuals

Olga J. G. Schiepers, Renate H. M. de Groot, Martin P. J. van Boxtel, Jelle Jolles, Ariëne de Jong, Dieter Lütjohann, Jogchum Plat, and Ronald P. Mensink 1368

Patterns of Recommended Dietary Behaviors Predict Subsequent Risk of Mortality in a Large Cohort of Men and Women in the United States

Ashima K. Kant, Michael F. Leitzmann, Yikyung Park, Albert Hollenbeck, and Arthur Schatzkin 1374

Decreasing Trends in Malnutrition Prevalence Rates Explained by Regular Audits and Feedback

Judith M. M. Meijers, Math J. M. M. Candel, Jos M. G. A. Schols, Marian A. E. van Bokhorst-de van der Schueren, and Ruud J. G. Halfens 1381

■ COMMUNITY AND INTERNATIONAL NUTRITION

Caregiver Verbal Encouragement Increases Food Acceptance among Vietnamese Toddlers

Kirk A. Dearden, Sterling Hilton, Margaret E. Bentley, Laura E. Caulfield, Cathleen Wilde, Pham Bich Ha, and David Marsh 1387

■ NUTRITIONAL IMMUNOLOGY

Zinc Supplementation Increases Zinc Status and Thymopoiesis in Aged Mice

Carmen P. Wong, Yang Song, Valerie D. Elias, Kathy R. Magnusson, and Emily Ho 1393

Cow Milk Allergy Symptoms Are Reduced in Mice Fed Dietary Synbiotics during Oral Sensitization with Whey

Bastiaan Schouten, Betty C. A. M. van Esch, Gerard A. Hofman, Suzan A. C. M. van Doorn, Jan Knol, Alma J. Nauta, Johan Garssen, Linette E. M. Willemsen, and Léon M. J. Knippels 1398

Prebiotics Modulate Immune Responses in the Gut-Associated Lymphoid Tissue of Chickens

Vijaya Janardhana, Mary M. Broadway, Matthew P. Bruce, John W. Lowenthal, Mark S. Geier, Robert J. Hughes, and Andrew G. D. Bean 1404

Reduced ex Vivo Interleukin-6 Production by Dietary Fish Oil Is Not Modified by Linoleic Acid Intake in Healthy Men

Camilla T. Damsgaard, Lotte Lauritzen, Philip C. Calder, Tanja R. Kjær, and Hanne Frøkiær 1410

■ METHODOLOGY AND MATHEMATICAL MODELING

Analytical Recovery of Folate Degradation Products Formed in Human Serum and Plasma at Room Temperature

Rita Hannisdal, Per Magne Ueland, Simone J. P. M. Eussen, Asbjørn Svardal, and Steinar Hustad 1415

Simulation Model Accurately Estimates Total Dietary Iodine Intake

Janneke Verkaik-Kloosterman, Pieter van 't Veer, and Marga C. Ocké 1419

■ AMERICAN SOCIETY FOR NUTRITION AWARDS

Invitation for Nominations for 2010

1426

Announcements

1430

Cover image: Treatment with quercetin, a dietary flavonoid with antioxidant properties, ameliorated the effects of hepatic inflammation in rats with common bile duct ligation (CBDL), 14 d after surgery. *Left*: CBDL rat liver; *Right*: CBDL + Quercetin rat liver. Brown staining shows alpha-smooth muscle actin, which is elevated by CBDL. See the article by Tieppo et al., page 1339, in this issue (J. Nutr. 139: 1139–1346, 2009). Copyright © 2009 American Society for Nutrition.