Contents

Articles

BIOCHEMICAL, MOLECULAR, AND GENETIC MECHANISMS

Supplementing Obese Zucker Rats with Niacin Induces the Transition of Glycolytic to Oxidative Skeletal Muscle Fibers
Robert Ringseis, Susann Rosenbaum, Denise K. Gessner, Lea Herges, Johanna F. Kubens, Frank-Christoph Mooren, Karsten Krüger, and Klaus Eder 125

NUTRIENT PHYSIOLOGY, METABOLISM, AND NUTRIENT-NUTRIENT INTERACTIONS

Dietary Sialic Acid and Cholesterol Influence Cortical Composition in Developing Rats
Susan A. Scholtz, Bhavana S. Gottipati, Byron J. Gajewski, and Susan E. Carlson 132

NUTRITION AND DISEASE

Low Doses of Allergen and Probiotic Supplementation Separately or in Combination Alleviate Allergic Reactions to Cow β-Lactoglobulin in Mice
Cin L. Thang, Joyce I. Boye, and Xin Zhao 136

NUTRIENT REQUIREMENTS AND OPTIMAL NUTRITION

A Vitamin B-12 Supplement of 500 μg/d for Eight Weeks Does Not Normalize Urinary Methylmalonic Acid or Other Biomarkers of Vitamin B-12 Status in Elderly People with Moderately Poor Vitamin B-12 Status

The Change in Plasma 25-Hydroxyvitamin D Did Not Differ between Breast-Fed Infants That Received a Daily Supplement of Ergocalciferol or Cholecalciferol for 3 Months
Sina Gallo, Anna Phan, Catherine A. Vanstone, Celia Rodd, and Hope A. Weiler 148

NUTRITIONAL EPIDEMIOLOGY

Vitamin D Status in Montréal Preschoolers Is Satisfactory Despite Low Vitamin D Intake
Jessy El Hayek, Thu Trang Pham, Sarah Finch, Tom J. Hazell, Sonia Jean-Philippe, Catherine A. Vanstone, Sherry Agellon, Celia Rodd, Frank Rauch, and Hope A. Weiler 154

Carbon and Nitrogen Stable Isotope Ratios Predict Intake of Sweeteners in a Yup’ik Study Population
Sarah H. Nash, Alan R. Kristal, Andrea Bersamin, Scarlett E. Hopkins, Bert B. Boyer, and Diane M. O’Brien 161