

CONTENTS

CRITICAL REVIEW

- Recent Advances in Methods of Assessing Dietary Amino Acid Requirements for Adult Humans. *Gordon A. Zello, Linda J. Wykes, Ronald O. Ball, and Paul B. Pencharz* 2907

ARTICLES

Biochemical and Molecular Roles of Nutrients

- Characterization of a Novel Protein in Chick Intestine that Exhibits Calcium-Binding Activity and Regulation by Dietary Calcium, Aluminum and Vitamin D. *Michael A. Dunn, Saw Leng Too and Amy S. Ishizaki* 2916
- Defects of Copper Deficiency in Rats Are Modified by Dietary Treatments that Affect Glycation. *Jack T. Saari, Ann M. Bode and Gwen M. Dahlen* 2925
- Copper Deficiency Increases Hepatic Apolipoprotein A-I Synthesis and Secretion but Does Not Alter Hepatic Total Cellular Apolipoprotein A-I mRNA Abundance in Rats. *Ron C.A.J.M. Hoogeveen, Scott K. Reaves and Kai Y. Lei* 2935
- Diet Differentially Regulates Glucokinase and L-type Pyruvate Kinase Gene Expression in Rat Liver. *Nobuko Iritani, Hitomi Fukuda, Kayoko Tada, Akiko Itoh and Tamio Noguchi* 2945
- CYP-2E1 Inhibitors Partially Ameliorate the Changes in Hepatic Fatty Acid Composition Induced in Rats by Chronic Administration of Ethanol and a High Fat Diet. *Michio Morimoto, Ronald C. Reitz, Robert J. Morin, Khoa Nguyen, Magnus Ingelman-Sundberg and Samuel W. French* 2953

Community and International Nutrition

- Randomized Clinical Trial of Nutritional Supplementation Shows Little Effect on Functional Status among Free-Living Frail Elderly. *Katherine Gray-Donald, H el ene Payette and V eronique Boutier* 2965
- Exclusive Breast-Feeding Duration Is Associated with Attitudinal, Socioeconomic and Biocultural Determinants in Three Latin American Countries. *Rafael P erez-Escamilla, Chessa Lutter, Ana Maria Segall, Ada Rivera, Sandra Trevi o-Siller and Tina Sanghvi* 2972

Human and Clinical Nutrition

- Vitamin B-6 Status during Childhood: Tracking from 2 Months to 11 Years of Age. *Kaarina Heiskanen, Markku Kallio, Leena Salmenper , Martti A. Siimes, Inkeri Ruokonen and Jaakko Perheentupa* 2985
- Milk Composition in Women from Five Different Regions of China: The Great Diversity of Milk Fatty Acids. *Ruan Chulei, Liu Xiaofang, Man Hongsheng, Ma Xiulan, Lin Guizheng, Duan Gianhong, Carol A. DeFrancesco and William E. Connor* 2993
- Supplemental Nutrition with Ornithine α -Ketoglutarate in Rats with Cancer-Associated Cachexia: Surgical Treatment of the Tumor Improves Efficacy of Nutritional Support. *Thierry Le Bricon, Luc Cy-nober, Catherine J. Field and Vickie E. Baracos* 2999

Nutrient Metabolism

- Alterations of Methionine Fluxes and Incorporation in Intestines of Miniature Pigs Fed a Diet High in Caseinate Are Restricted by Angiotensin-Converting Enzyme Inhibitor. *Dominique Jourdheuil-Rahmani, Pierre H. Rolland, Dominique Masset, Danielle Gar on and Roger Rahmani* 3011

Whole Body Metabolism Is Not Restricted to D-Sugars because Energy Metabolism of L-Sugars Fits a Computational Model in Rats. <i>G. Livesey and J. C. Brown</i>	3020
Formation of Second Messenger Diacylglycerol in Murine Peritoneal Macrophages Is Altered after In Vivo (n-3) Polyunsaturated Fatty Acid Supplementation. <i>Paola A. Marignani and Rolf J. Sebaldt</i>	3030
Coconut Oil and Beef Tallow, But Not Tricaprylin, Can Replace Menhaden Oil in the Diet of Red Drum (<i>Sciaenops ocellatus</i>) without Adversely Affecting Growth or Fatty Acid Composition. <i>Steven R. Craig and Delbert M. Gatlin, III</i>	3041
Pregnancy and Lactation Are Associated with Diminished Concentrations of Choline and Its Metabolites in Rat Liver. <i>Steven H. Zeisel, Mei-Heng Mar, Zhiwei Zhou and Kerry-Ann Da Costa</i>	3049

Nutrient Requirements and Interactions

Ascorbate Polyphosphate Is a Bioavailable Vitamin C Source in Juvenile Rainbow Trout: Tissue Saturation and Compartmentalization Model. <i>Malgorzata Matusiewicz, Konrad Dabrowski, Ludwig Volker and Krzysztof Matusiewicz</i>	3055
Dietary Polyunsaturated Fatty Acids and Aging Modulate Glutathione-Related Antioxidants in Rat Liver. <i>Raymond Christon, Rahma Belcadi Haloui and Georges Durand</i>	3062
Tissue α -Tocopherol Retention in Male Rats Is Compromised by Feeding Diets Containing Oxidized Frying Oil. <i>Jen-Fang Liu and Ching-Jang Huang</i>	3071
Simultaneous Dietary Supplementation of Sodium Cholate and Beta-Carotene Markedly Enhances Accumulation of Beta-Carotene in Mice. <i>Keizo Umegaki, Mari Aoshima, Saishi Hirota, Hiromi Uramoto and Takatoshi Esashi</i>	3081

<i>Announcements</i>	3087
<i>Acknowledgments</i>	3089
<i>Author Index, Volume 125</i>	3091
<i>Subject Index, Volume 125</i>	3097
<i>1995 Cumulative Contents</i>	iii