

## CONTENTS

|                                                                                                                                                                                                                                                                                                                                            |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Editorial: Modification of the Acceptance Policy for Manuscripts<br><i>James B. Field</i>                                                                                                                                                                                                                                                  | 153 |
| Serum Ferritin Is a Major Determinant of Lipid Phenotype in Familial Combined Hyperlipidemia and Familial Hypertriglyceridemia<br><i>Rocio Mateo-Gallego, Pilar Calmarza, Estibaliz Jarauta, Elena Burillo, Ana Cenarro, and Fernando Civeira</i>                                                                                          | 154 |
| Increased Left Ventricular Arrhythmogenicity in Metabolic Syndrome and Relationship With Myocardial Performance, Risk Factors for Atherosclerosis, and Low-Grade Inflammation<br><i>Christina Voulgari, Nicholas Tentolouris, Dimitrios Papadogiannis, Ioannis Moyssakis, Despoina Perrea, Despoina Kyriaki, and Nicholas Katsilambros</i> | 159 |
| Sex Hormone-Binding Globulin and Lipid Profile in Pubertal Children<br><i>Carmen Garcés, Iría de Oya, Miguel A. Lasunción, Laura López-Simón, Beatriz Cano, and Manuel de Oya</i>                                                                                                                                                          | 166 |
| Contribution of Skeletal Muscle Mass on Sex Differences in 2-Hour Plasma Glucose Levels After Oral Glucose Load in Thai Subjects With Normal Glucose Tolerance<br><i>Chatchalit Rattarasarn, Rattana Leelawattana, and Supamai Soonthornpun</i>                                                                                            | 172 |
| Serum Aminotransferase Changes With Significant Weight Loss: Sex and Age Effects<br><i>Ayako Suzuki, Martin Binks, Ronald Sha, Amy Wachholtz, Howard Eisenson, and Anna Mae Diehl</i>                                                                                                                                                      | 177 |
| Changes of Peripheral $\alpha$ -Melanocyte-Stimulating Hormone in Childhood Obesity<br><i>Christian L. Roth, Pablo J. Enriori, Ursel Gebhardt, Anke Hinney, Hermann L. Müller, Johannes Hebebrand, Thomas Reinehr, and Michael A. Cowley</i>                                                                                               | 186 |
| Circulating Adiponectin Concentrations Were Related to Free Thyroxine Levels in Thyroid Cancer Patients After Thyroid Hormone Withdrawal<br><i>Shih-Yi Lin, Shu-Chuan Huang, and Wayne Huey-Herng Sheu</i>                                                                                                                                 | 195 |
| Acute Altitude-Induced Hypoxia Suppresses Plasma Glucose and Leptin in Healthy Humans<br><i>Karen R. Kelly, David L. Williamson, Ciarán E. Fealy, David A. Kriz, Raj K. Krishnan, Hazel Huang, Janice Ahn, Joseph L. Loomis, and John P. Kirwan</i>                                                                                        | 200 |
| Failure of D-Psicose Absorbed in the Small Intestine to Metabolize Into Energy and Its Low Large Intestinal Fermentability in Humans<br><i>Tetsuo Iida, Noriko Hayashi, Takako Yamada, Yuku Yoshikawa, Shoko Miyazato, Yuka Kishimoto, Kazuhiro Okuma, Masaaki Tokuda, and Ken Izumori</i>                                                 | 206 |
| The Role of Proliferator-Activated Receptor $\gamma$ Coactivator-1 $\alpha$ in the Fatty-Acid-Dependent Transcriptional Control of Interleukin-10 in Hepatic Cells of Rodents<br><i>Joseane Morari, Adriana S. Torsoni, Gabriel F. Anhe, Erika A. Roman, Dennys E. Cintra, Laura S. Ward, Silvana Bordin, and Lício A. Velloso</i>         | 215 |
| Acute Exposure to Rosiglitazone Does Not Affect Glucose Transport in Intact Human Skeletal Muscle<br><i>Paulina Skrobuk, Heidi Kuoppamaa, Anne Hiukka, and Heikki A. Koistinen</i>                                                                                                                                                         | 224 |
| Postprandial Effects of a Lipid-Rich Meal in the Rat Are Modulated by the Degree of Unsaturation of 18C Fatty Acids<br><i>Patrick Even, François Mariotti, and Dominique Hermier</i>                                                                                                                                                       | 231 |
| Insulin Resistance and Inflammation May Have an Additional Role in the Link Between Cystatin C and Cardiovascular Disease in Type 2 Diabetes Mellitus Patients<br><i>Seung-Hwan Lee, Shin-Ae Park, Seung-Hyun Ko, Hyeon-Woo Yim, Yu-Bae Ahn, Kun-Ho Yoon, Bong-Yun Cha, Ho-Young Son, and Hyuk-Sang Kwon</i>                               | 241 |

(Contents continued)

|                                                                                                                                                                                                                         |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Superoxide Production by Mitochondria of Insulin-Sensitive Tissues: Mechanistic Differences and Effect of Early Diabetes                                                                                                |     |
| <i>Judy A. Herlein, Brian D. Fink, and William I. Sivitz</i>                                                                                                                                                            | 247 |
| Glutamate Permeability at the Blood-Brain Barrier in Insulinopenic and Insulin-Resistant Rats                                                                                                                           |     |
| <i>Richard A. Hawkins, Ashwini Mokashi, Mary R. DeJoseph, Juan R. Viña, and John D. Fernstrom</i>                                                                                                                       | 258 |
| Lipid Oxidation in Overweight Men After Exercise and Food Intake                                                                                                                                                        |     |
| <i>Fabien Pillard, Virginie Van Wymelbeke, Eric Garrigue, Cédric Moro, François Crampes, Jean-Claude Guillard, Michel Berlan, Isabelle de Glisezinski, Isabelle Harant, Daniel Rivière, and Laurent Brondel</i>         | 267 |
| Novel CYP17A1 Mutation in a Japanese Patient With Combined 17 $\alpha$ -Hydroxylase/17,20-Lyase Deficiency                                                                                                              |     |
| <i>Noriyuki Katsumata, Eishin Ogawa, Ikuma Fujiwara, and Kaori Fujikura</i>                                                                                                                                             | 275 |
| Insulin Resistance Is Associated With Increased Renal Resistive Index Independent of Other Factors in Newly Diagnosed Type 2 Diabetes Mellitus and Hypertensive Patients                                                |     |
| <i>Baris Afsar, Rengin Elsurur, Siren Sezer, and Fatma Nurhan Ozdemir</i>                                                                                                                                               | 279 |
| Berberine Lowers Blood Glucose in Type 2 Diabetes Mellitus Patients Through Increasing Insulin Receptor Expression                                                                                                      |     |
| <i>Hao Zhang, Jing Wei, Rong Xue, Jin-Dan Wu, Wei Zhao, Zi-Zheng Wang, Shu-Kui Wang, Zheng-Xian Zhou, Dan-Qing Song, Yue-Ming Wang, Huai-Ning Pan, Wei-Jia Kong, and Jian-Dong Jiang</i>                                | 285 |
| Increased Oxidative Stress Levels and Normal Antioxidant Enzyme Activity in Circulating Mononuclear Cells From Patients of Familial Hypercholesterolemia                                                                |     |
| <i>Jose T. Real, Sergio Martínez-Hervás, M. Carmen Tormos, Elena Domenech, Federico V. Pallardó, Guillermo Sáez-Tormo, Josep Redon, Rafael Carmena, F. Javier Chaves, Juan F. Ascaso, and Ana-Barbara García-García</i> | 293 |
| Should Triglycerides and the Triglycerides to High-Density Lipoprotein Cholesterol Ratio Be Used as Surrogates for Insulin Resistance?                                                                                  |     |
| <i>Su-Jong Kim-Dorner, Patricia A. Deuster, Stacey A. Zeno, Alan T. Remaley, and Merrily Poth</i>                                                                                                                       | 299 |