

Table of contents

About the Special Issue Editors	vii
Preface to "Nutrition and Diet Factors in Type 2 Diabetes"	ix
Jiri Veleba, Martin Matoulek, Martin Hill, Terezie Pelikanova and Hana Kahleova "A Vegetarian vs. Conventional Hypocaloric Diet: The Effect on Physical Fitness in Response to Aerobic Exercise in Patients with Type 2 Diabetes." A Parallel Randomized Study doi: 10.3390/nu8110671	1
Xin Fang, Hedong Han, Mei Li, Chun Liang, Zhongjie Fan, Jan Aaseth, Jia He, Scott Montgomery and Yang Cao Dose-Response Relationship between Dietary Magnesium Intake and Risk of Type 2 Diabetes Mellitus: A Systematic Review and Meta-Regression Analysis of Prospective Cohort Studies doi: 10.3390/nu8110739	8
Ewa Jablonska, Edyta Reszka, Jolanta Gromadzinska, Edyta Wieczorek, Magdalena B. Krol, Sara Raimondi, Katarzyna Socha, Maria H. Borawska and Wojciech Wasowicz The Effect of Selenium Supplementation on Glucose Homeostasis and the Expression of Genes Related to Glucose Metabolism doi: 10.3390/nu8120772	26
Tinashe Chikowore, Pedro T. Pisa, Tertia van Zyl, Edith J. M. Feskens, Edelweiss Wentzel-Viljoen and Karin R. Conradie Nutrient Patterns Associated with Fasting Glucose and Glycated Haemoglobin Levels in a Black South African Population doi: 10.3390/nu9010009	38
Jia Zheng, Xinhua Xiao, Qian Zhang, Tong Wang, Miao Yu and Jianping Xu Maternal Low-Protein Diet Modulates Glucose Metabolism and Hepatic MicroRNAs Expression in the Early Life of Offspring [†] doi: 10.3390/nu9030205	52
Alexander M. Vaiserman Early-Life Nutritional Programming of Type 2 Diabetes: Experimental and Quasi-Experimental Evidence doi: 10.3390/nu9030236	66
Jesse Bertinato, Kuan Chiao Wang and Stephen Hayward Serum Magnesium Concentrations in the Canadian Population and Associations with Diabetes, Glycemic Regulation, and Insulin Resistance doi: 10.3390/nu9030296	82
Paolo Tessari and Anna Lante A Multifunctional Bread Rich in Beta Glucans and Low in Starch Improves Metabolic Control in Type 2 Diabetes: A Controlled Trial doi: 10.3390/nu9030297	94
Bang-An Luo, Fan Gao and Lu-Lu Qin The Association between Vitamin D Deficiency and Diabetic Retinopathy in Type 2 Diabetes: A Meta-Analysis of Observational Studies doi: 10.3390/nu9030307	105

Salwa M. K. Almomen, Qiunong Guan, Peihe Liang, Kaidi Yang, Ahmad M. Sidiqi, Adeera Levin and Caigan Du Daily Intake of Grape Powder Prevents the Progression of Kidney Disease in Obese Type 2 Diabetic ZSF1 Rats doi: 10.3390/nu9040345	117
Christophe Kosinski and François R. Jornayvaz Effects of Ketogenic Diets on Cardiovascular Risk Factors: Evidence from Animal and Human Studies doi: 10.3390/nu905017	133
Rui Liu, Hui Li, Wenjuan Fan, Qiu Jin, Tingting Chao, Yuanjue Wu, Junmei Huang, Liping Hao and Xuefeng Yang Leucine Supplementation Differently Modulates Branched-Chain Amino Acid Catabolism, Mitochondrial Function and Metabolic Profiles at the Different Stage of Insulin Resistance in Rats on High-Fat Diet doi: 10.3390/nu9060565	149
M. Gorety Jacobo-Cejudo, Roxana Valdés-Ramos, Ana L. Guadarrama-López, Rosa-Virgen Pardo-Morales, Beatriz E. Martínez-Carrillo and Laurence S. Harbige Effect of <i>n</i> -3 Polyunsaturated Fatty Acid Supplementation on Metabolic and Inflammatory Biomarkers in Type 2 Diabetes Mellitus Patients doi: 10.3390/nu9060573	169
Tanja Diederichs, Christian Herder, Sarah Roßbach, Michael Roden, Stefan A. Wudy, Ute Nöthlings, Ute Alexy and Anette E. Buyken Carbohydrates from Sources with a Higher Glycemic Index during Adolescence: Is Evening Rather than Morning Intake Relevant for Risk Markers of Type 2 Diabetes in Young Adulthood? doi: 10.3390/nu9060591	180
Mikael Fogelholm, Thomas Meinert Larsen, Margriet Westerterp-Plantenga, Ian Macdonald, J. Alfredo Martinez, Nadka Boyadjieva, Sally Poppitt, Wolfgang Schlicht, Gareth Stratton, Jouko Sundvall, Tony Lam, Elli Jalo, Pia Christensen, Mathijs Drummen, Elizabeth Simpson, Santiago Navas-Carretero, Teodora Handjieva-Darlenska, Roslyn Muirhead, Marta P. Silvestre, Daniela Kahlert, Laura Pastor-Sanz, Jennie Brand-Miller and Anne Raben PREVIEW: Prevention of Diabetes through Lifestyle Intervention and Population Studies in Europe and around the World. Design, Methods, and Baseline Participant Description of an Adult Cohort Enrolled into a Three-Year Randomised Clinical Trial doi: 10.3390/nu9060632	196
Ana Burgeiro, Manuela G. Cerqueira, Bárbara M. Varela-Rodríguez, Sara Nunes, Paula Neto, Frederico C. Pereira, Flávio Reis and Eugénia Carvalho Glucose and Lipid Dysmetabolism in a Rat Model of Prediabetes Induced by a High-Sucrose Diet doi: 10.3390/nu9060638	213
Pablo Hernández-Alonso, Lucía Camacho-Barcia, Mònica Bulló and Jordi Salas-Salvadó Nuts and Dried Fruits: An Update of Their Beneficial Effects on Type 2 Diabetes doi: 10.3390/nu9070673	230

Christina M. Gant, S. Heleen Binnenmars, Else van den Berg, Stephan J. L. Bakker, Gerjan Navis and Gozewijn D. Laverman Integrated Assessment of Pharmacological and Nutritional Cardiovascular Risk Management: Blood Pressure Control in the DIAbetes and LiFestyle Cohort Twente (DIALECT) doi: 10.3390/nu9070709	264
Charlotte E. Pelgrim, Bart A. A. Franx, Jessica Snabel, Robert Kleemann, Ilse A. C. Arnoldussen and Amanda J. Kiliaan Butyrate Reduces HFD-Induced Adipocyte Hypertrophy and Metabolic Risk Factors in Obese LDLr ^{-/-} -Leiden Mice doi: 10.3390/nu9070714	280