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Nota di contenuto	<p>About the Special Issue Editors -- Preface to "Health-Promoting Components of Fruits and Vegetables in Human Health" -- Maria-Dolores Lozano-Baena, Inmaculada Tasset, Andres Munoz-Serrano, Angeles Alonso-Moraga and Antonio de Haro-Bailon Cancer Prevention and Health Benefices of Traditionally Consumed Borago officinalis Plants Reprinted from: Nutrients 2016, 8(1), 48; doi: 10.3390/nu8010048 -- Yue Zhou, Ya Li, Tong Zhou, Jie Zheng, Sha Li and Hua-Bin Li Dietary Natural Products for Prevention and Treatment of Liver Cancer Reprinted from: Nutrients 2016, 8(3), 156; doi: 10.3390/nu8030156 -- Can Liu, Longhai Dai, Yueping Liu, Long Rong, Dequan Dou, Yuanxia Sun and Lanqing Ma Antiproliferative Activity of Triterpene Glycoside Nutrient from Monk Fruit in Colorectal Cancer and Throat Cancer Reprinted from: Nutrients 2016, 8(6), 360; doi: 10.3390/nu8060360 -- Sydney Moser, Jongbin Lim, Mohammad Chegeni, JoLynne D. Wightman, Bruce R. Hamaker and Mario G. Ferruzzi Concord and Niagara Grape Juice and Their Phenolics Modify Intestinal Glucose Transport in a Coupled in Vitro Digestion/Caco-2 Human Intestinal Model Reprinted from: Nutrients 2016, 8(7), 414; doi: 10.3390/nu8070414 -- Taylor C. Wallace, Margaret Slavin and Cara L. Frankenfeld Systematic Review of Anthocyanins and Markers of Cardiovascular Disease, Reprinted from: Nutrients 2016, 8(1), 32; doi: 10.3390/nu8010032 -- Seyed Fazel Nabavi, Solomon Habtemariam, Arianna Di Lorenzo, Antoni Sureda, Sedigheh Khanjani, Seyed</p>

Mohammad Nabavi and Maria Daglia Post-Stroke Depression Modulation and in Vivo Antioxidant Activity of Gallic Acid and Its Synthetic Derivatives in a Murine Model System, Reprinted from: *Nutrients* 2016, 8(5), 248; doi: 10.3390/nu8050248 -- Lan Xiang, Xue-Li Cao, Tian-Yan Xing, Daisuke Mori, Rui-Qi Tang, Jing Li, Li-Juan Gao and Jian-Hua Qi Mixture of Peanut Skin Extract and Fish Oil Improves Memory in Mice via Modulation of Anti-Oxidative Stress and Regulation of BDNF/ERK/CREB Signaling Pathways Reprinted from: *Nutrients* 2016, 8(5), 256; doi: 10.3390/nu8050256 -- Margaret Slavin, Julia Bourguignon, Kyle Jackson and Michael-Angelo Orciga Impact of Food Components on in vitro Calcitonin Gene-Related Peptide Secretion-A Potential Mechanism for Dietary Influence on Migraine Reprinted from: *Nutrients* 2016, 8(7), 406; doi: 10.3390/nu8070406 -- Lubing Yang, Sihui Ma, Yu Han, Yuhan Wang, Yan Guo, Qiang Weng and Meiyu Xu Walnut Polyphenol Extract Attenuates Immunotoxicity Induced by 4-Pentylphenol and 3-methyl-4-nitrophenol in Murine Splenic Lymphocyte, Reprinted from: *Nutrients* 2016, 8(5), 287; doi: 10.3390/nu8050287 -- Un Ju Jung Yun-Young Cho and Myung-Sook Choi Apigenin Ameliorates Dyslipidemia, Hepatic Steatosis and Insulin Resistance by Modulating Metabolic and Transcriptional Profiles in the Liver of High-Fat Diet-Induced Obese Mice Reprinted from: *Nutrients* 2016, 8(5), 305; doi: 10.3390/nu8050305 -- Xufeng Tao, Xiance Sun, Lina Xu, Lianhong Yin, Xu Han, Yan Qi, Youwei Xu, Yanyan Zhao, Changyuan Wang and Jinyong Peng Total Flavonoids from *Rosa laevigata* Michx Fruit Ameliorates Hepatic Ischemia/Reperfusion Injury through Inhibition of Oxidative Stress and Inflammation in Rats, Reprinted from: *Nutrients* 2016, 8(7), 418; doi: 10.3390/nu8070418 -- Yun-Hee Lee, Joung-Hee Kim, Sou Hyun Kim, Ji Youn Oh, Woo Duck Seo, Kyung-Mi Kim, Jae-Chul Jung and Young-Suk Jung Barley Sprouts Extract Attenuates Alcoholic Fatty Liver Injury in Mice by Reducing Inflammatory Response, Reprinted from: *Nutrients* 2016, 8(7), 440; doi: 10.3390/nu8070440 -- Sivapragasam Gothai, Palanivel Ganesan, Shin-Young Park, Sharida Fakurazi, Dong-Kug Choi and Palanisamy Arulselvan Natural Phyto-Bioactive Compounds for the Treatment of Type 2 Diabetes: Inflammation as a Target Reprinted from: *Nutrients* 2016, 8(8), 461; doi: 10.3390/nu8080461 -- Herson Antonio Gonzalez-Ponce, Maria Consolacion Martinez-Saldana, Ana Rosa Rincon-Sanchez, Maria Teresa Sumaya-Martinez, Manon Buist-Homan, Klaas Nico Faber, Han Moshage and Fernando Jaramillo-Juarez Hepatoprotective Effect of *Opuntia robusta* and *Opuntia streptacantha* Fruits against Acetaminophen-Induced Acute Liver Damage, Reprinted from: *Nutrients* 2016, 8(10), 607; doi: 10.3390/nu8100607 -- Ji-Young Choi, Ye Jin Kim, Ri Ryu, Su-Jung Cho, Eun-Young Kwon and Myung-Sook Choi Effect of Green Tea Extract on Systemic Metabolic Homeostasis in Diet-Induced Obese Mice Determined via RNA-Seq Transcriptome Profiles, Reprinted from: *Nutrients* 2016, 8(10), 640; doi: 10.3390/nu8100640 -- Kevin B. Comerford, Keith T. Ayoob, Robert D. Murray and Stephanie A. Atkinson The Role of Avocados in Maternal Diets during the Periconceptional Period, Pregnancy and Lactation Reprinted from: *Nutrients* 2016, 8(5), 313; doi: 10.3390/nu8050313 -- Kevin B. Comerford, Keith T. Ayoob, Robert D. Murray and Stephanie A. Atkinson The Role of Avocados in Complementary and Transitional Feeding Reprinted from: *Nutrients* 2016, 8(5), 316; doi: 10.3390/nu8050316 -- Gretel G. Pellegrini, Cynthia C. Morales, Taylor C. Wallace, Lilian I. Plotkin and Teresita Bellido Avenanthramides Prevent Osteoblast and Osteocyte Apoptosis and Induce Osteoclast Apoptosis in Vitro in an Nrf2-Independent Manner Reprinted from: *Nutrients* 2016, 8(7), 423; doi: 10.3390/nu8070423 -- Brunno F. R.

Caetano, Nelci A. de Moura, Ana P. S. Almeida, Marcos C. Dias, Katia Sivieri and Luis F. Barbisan Yacon (*Smallanthus sonchifolius*) as a Food Supplement: Health-Promoting Benefits of Fructooligosaccharides, Reprinted from: *Nutrients* 2016, 8(7), 436; doi: 10.3390/nu8070436 -- Lauren N. Tobey, Harold F. Koenig, Nicole A. Brown and Melinda M. Manore Reaching Low-Income Mothers to Improve Family Fruit and Vegetable Intake: Food Hero Social Marketing Campaign-Research Steps, Development and Testing Reprinted from: *Nutrients* 2016, 8(9), 562; doi: 10.3390/nu8090562.

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Sommario/riassunto

Diet and lifestyle choices can substantially predispose an individual to, or protect against, many age- and obesity-related chronic diseases. According to the NIH Office of Dietary Supplements, dietary bioactives are compounds in foods not needed for basic human nutrition but responsible for changes in health status.<sup>1</sup> These compounds are safe at normal food consumption levels (e.g., anthocyanins in berries) and their biological activities may come from a single compound (e.g., lutein in spinach) or a class of compounds (e.g., avenanthramides in oats) even if the exact identity and composition are unknown. Bioactive compounds of plants; can vary significantly in their ratios and relative concentrations depending on factors such as cultivation, soil, altitude, and weather conditions. Substantial scientific evidence is available for some health promoting phytochemicals, such as dose-response relations, for performance and/or reduction in the risk of chronic disease. However, several limitations relating to absorption, distribution, metabolism and excretion of many dietary bioactives still exist and must be better understood. This Special Issue compiles recent discoveries that advance our understanding of how dietary bioactive, particularly from fruits and vegetables, influence long-term health maintenance and disease prevention.

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