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| Nota di contenuto       | About the Special Issue Editor ix -- Preface to "Prebiotics and Probiotics" xi -- Javier de Andrés, Esther Jiménez, Isabel Chico-Calero, Manuel Fresno, Leónides Fernández and Juan Miguel Rodríguez Physiological Translocation of Lactic Acid Bacteria during Pregnancy Contributes to the Composition of the Milk Microbiota in |

Mice Reprinted from: *Nutrients* 2018, 10, 14, doi: 10.3390/nu10010014 . 1 -- Eva Maier, Rachel C. Anderson and Nicole C. Roy Live Faecalibacterium prausnitzii Does Not Enhance Epithelial Barrier Integrity in an Apical Anaerobic Co-Culture Model of the Large Intestine Reprinted from: *Nutrients* 2017, 9, 1349, doi: 10.3390/nu9121349 . 14 -- Pamela Vernocchi, Federica Del Chierico, Andrea Quagliariello, Danilo Ercolini, Vincenzina Lucidi and Lorenza Putignani A Metagenomic and in Silico Functional Prediction of Gut Microbiota Profiles May Concur in Discovering New Cystic Fibrosis Patient-Targeted Probiotics Reprinted from: *Nutrients* 2017, 9, 1342, doi: 10.3390/nu9121342 . 27 -- Toshifumi Osaka, Eri Moriyama, Shunichi Arai, Yasuhiro Date, Junji Yagi, Jun Kikuchi and Satoshi Tsuneda Meta-Analysis of Fecal Microbiota and Metabolites in Experimental Colitic Mice during the Inflammatory and Healing Phases Reprinted from: *Nutrients* 2017, 9, 1329, doi: 10.3390/nu9121329 . 42 -- Hideaki Shima, Shizuka Masuda, Yasuhiro Date, Amiu Shino, Yuuri Tsuboi, Mizuho Kajikawa, Yoshihiro Inoue, Taisei Kanamoto and Jun Kikuchi Exploring the Impact of Food on the Gut Ecosystem Based on the Combination of Machine Learning and Network Visualization Reprinted from: *Nutrients* 2017, 9, 1307, doi: 10.3390/nu9121307 . 55 -- Shang-Jin Kim, Sang Hoon Park, Hong-Sig Sin, Seung-Hwan Jang, Sang-Wang Lee, Seon-Young Kim, Bora Kwon, Kang-Yeol Yu, Su Young Kim and Dong Kwon Yang Hypocholesterolemic Effects of Probiotic Mixture on Diet-Induced Hypercholesterolemic Rats Reprinted from: *Nutrients* 2017, 9, 293, doi: 10.3390/nu9030293 65 -- Giancarlo Ceccarelli, Jason M. Brenchley, Eugenio Nelson Cavallari, Giuseppe Corano Scheri, Mariangela Fratino, Claudia Pinacchio, Ivan Schietroma, Saeid Najafi Fard, Carolina Scagnolari, Ivano Mezzaroma, Vincenzo Vullo and Gabriella d'Ettorre Impact of High-Dose Multi-Strain Probiotic Supplementation on Neurocognitive Performance and Central Nervous System Immune Activation of HIV-1 Infected Individuals Reprinted from: *Nutrients* 2017, 9, 1269, doi: 10.3390/nu9111269 . 75 -- Wirginia Krzyściak, Dorota Kościelniak, Monika Papież, Palina Vyhouskaya, Katarzyna Zagórska-Swieży, Iwona Koodziej, Beata Bystrowska and Anna Jurczak Effect of a Lactobacillus Salivarius Probiotic on a Double-Species Streptococcus Mutans and Candida Albicans Caries Biofilm Reprinted from: *Nutrients* 2017, 9, 1242, doi: 10.3390/nu9111242 . 86 -- Tung Pham, Keat (Thomas) Teoh, Brett J. Savary, Ming-Hsuan Chen, Anna McClung and Sun-Ok Lee In Vitro Fermentation Patterns of Rice Bran Components by Human Gut Microbiota Reprinted from: *Nutrients* 2017, 9, 1237, doi: 10.3390/nu9111237 . 109 -- Enzo Vicari, Michele Salemi, Giuseppe Sidoti, Mariano Malaguarnera and Roberto Castiglione Symptom Severity Following Rifaximin and the Probiotic VSL#3 in Patients with Chronic Pelvic Pain Syndrome (Due to Inflammatory Prostatitis) Plus Irritable Bowel Syndrome Reprinted from: *Nutrients* 2017, 9, 1208, doi: 10.3390/nu9111208 . 124 -- Flavia Indrio, Giuseppe Riezzo, Paola Giordano, Maria Ficarella, Maria Paola Miolla, Silvia Martini, Luigi Corvaglia and Ruggiero Francavilla Effect of a Partially Hydrolysed Whey Infant Formula Supplemented with Starch and Lactobacillus reuteri DSM 17938 on Regurgitation and Gastric Motility Reprinted from: *Nutrients* 2017, 9, 1181, doi: 10.3390/nu9111181 . 135 -- Flavia Indrio, Giuseppe Riezzo, Silvio Tafuri, Maria Ficarella, Barbara Carlucci, Massimo Bisceglia, Lorenzo Polimeno and Ruggiero Francavilla Probiotic Supplementation in Preterm: Feeding Intolerance and Hospital Cost Reprinted from: *Nutrients* 2017, 9, 965, doi: 10.3390/nu9090965 144 -- Alicia Huazano-García, Hakdong Shin and Mercedes G. López Modulation of Gut Microbiota of Overweight Mice by Agavins and Their

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Liu, Chien-Yu Lin and Tzu-Lin Yeh Effect of Probiotics and Prebiotics on Immune Response to Influenza Vaccination in Adults: A Systematic Review and Meta-Analysis of Randomized Controlled Trials Reprinted from: *Nutrients* 2017, 9, 1175, doi: 10.3390/nu9111175 . 363 -- Junli Ma, Qihang Zhou and Houkai Li Gut Microbiota and Nonalcoholic Fatty Liver Disease: Insights on Mechanisms and Therapy Reprinted from: *Nutrients* 2017, 9, 1124, doi: 10.3390/nu9101124. 380 -- Paulina Markowiak and Katarzyna Sli ´ zewska Effects of Probiotics, Prebiotics, and Synbiotics on Human Health Reprinted from: *Nutrients* 2017, 9, 1021, doi: 10.3390/nu9091021 . 401 -- Bonnie L. Taylor, Georgia E. Woodfall, Katherine E. Sheedy, Meggan L. O'Riley, Kelsie A. Rainbow, Elsa L. Bramwell and Nicole J. Kellow Effect of Probiotics on Metabolic Outcomes in Pregnant Women with Gestational Diabetes: A Systematic Review and Meta-Analysis of Randomized Controlled Trials Reprinted from: *Nutrients* 2017, 9, 461, doi: 10.3390/nu9050461 431 -- Lei Wu and Dali Sun Consumption of Yogurt and the Incident Risk of Cardiovascular Disease: A Meta-Analysis of Nine Cohort Studies Reprinted from: *Nutrients* 2017, 9, 315, doi: 10.3390/nu9030315 444 -- Larry E. Miller, Liisa Lehtoranta and Markus J. Lehtinen The Effect of *Bifidobacterium animalis* ssp. *lactis* HN019 on Cellular Immune Function in Healthy Elderly Subjects: Systematic Review and Meta-Analysis Reprinted from: *Nutrients* 2017, 9, 191, doi: 10.3390/nu9030191 455 -- Girish Deshpande, Gayatri Athalye-Jape and Sanjay Patole Para-probiotics for Preterm Neonates-The Next Frontier Reprinted from: *Nutrients* 2018, 10, 871, doi: 10.3390/nu10070871 464.

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#### Sommario/riassunto

The purpose of this Special Issue, "Prebiotics and Probiotics", is to focus on the importance of intestinal microbiota for human health and disease and the possibilities of influencing its composition and function with probiotics and prebiotics. The goal is to clarify that the microbiome in the maternal fetal and during pediatric age, as well as the immediate changes that occur as new microbes are acquired postnatally play major roles in subsequent health and disease. Rapidly developing technologies for multi-omic analyses and systems biology are shifting paradigms in both scientific knowledge and clinical care. Finally, the idea will be to provide health professionals with comprehensive, understandable and highly readable updated information on the intestinal microbiota, probiotics and prebiotics.

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