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The Gut-Brain-Microbiome connection in neuropsychiatric diseases of children and adults

Exploiting research outcomes and application
potential for personalised prediction, prevention
and treatment of disease

27-28th April 2018

INTERNATIONAL WORKSHOP

Badia Benedettina, Cisef

Genova (Italy)



27th April**09.00 Welcome from Authority***Paolo Petralia, Alberto Martini, Carlo Minetti***09.30 Rationale and objectives of the workshop***Pasquale Striano, Istituto G. Gaslini, Genova, Italia**Sanjay Sisodiya, University College London Hospitals, London, UK***10.00 The gut-brain-microbiota (GBM) connection: an Introduction***Gerard Clarke, University College Cork, Cork, Ireland***10.45 Human gut microbiota, from structures to functions***Hervé Blottière, INRA, Paris, France***THE GBM AXIS IN HUMAN DISEASES***Chairs: Pietro Baldelli, Vincenzo Belcastro***11.15 Dysbiosis profiling and pediatric diseases: pattern correlations and bacterial dysfunction***Lorenza Putignani, Ospedale Bambino Gesù, Roma, Italy***11.45 Gut to brain interaction in Autism Spectrum Disorder***Elisa Santocchi & Letizia Guiducci, IRCCS Stella Maris Foundation, Pisa, Italy***12.30 GBA and microbiome in migraine in children***Marco Carotenuto, Università 'L. Vanvitelli', Napoli, Italy***13.00 Discussion****LUNCH****NEW FRONTIERS: EXPLORING THE POWER AND POSSIBILITIES OF GBM AXIS MODULATION***Chairs: Roberto Biassoni, Federico Zara, Andrea Petretto***15.00 Technological advances to study the microbiota***Jakob Zimmermann, University of Bern, Switzerland***15.30 Shotgun metagenomics for high-resolution microbiome studies***Nicola Segata, University of Trento, Italy***16.00 Microbiota-Gut-BraiN EngineeRed platform to eVAluate intestinal microflora impact on brain functionality (MINERVA)***Carmen Giordano, Politecnico di Milano, Italy***16.30 Discussion****28th April****INSIGHTS FROM EXPERIMENTAL MODELS***Chairs: Fabio Benfenati, Stephanie Baulac, Paolo Mainardi***09.30 Integrating 'Omics' Approaches to Prioritize New Pathogenetic Mechanisms for Neurological Diseases***Anna Cattaneo, Fatebenefratelli - S. Giovanni di Dio, Brescia, Italy***10.00 Peristaltic ideas for new therapeutic strategies: insights from animal models***Emilio Russo, University of Catanzaro, Italy***10.30 Manipulating the Gut Microbiota: Methods and Challenges of Gnotobiology***Francesca Ronchi, University of Bern, Switzerland***CLINICAL APPLICATIONS AND RELEVANCE TO THE DIET***Chairs: Lizzia Raffaghello, Laura Capecci, Paolo Carta***11.00 The potential impact of the treatment on gut microbiota: the paradigm of ketogenic diet***Kaja Selmer & Sigrid Pedersen, University Hospital Oslo, Norway***11.30 Short-term impact of ketogenic diet on gut microbiota in GLUT1 Deficiency***Anna Tagliabue, University of Pavia, Italy***12.30 Discussion and conclusions**