



17th June, 2024

Timing of schedule is based on Brazil (GMT -3)

08:30 - 08:50 **Welcome and Introduction** Fabio Spinelli (BEO Brazil) & Sara Colombo Mottaz (NNI Head)

Session I. Chair Flavia Indrio (Italy)
Early life gut microbiome ecological patterns Co-Chair Mario Vieira (Brazil)

08:50 - 09:00 **Chair Introduction** Flavia Indrio (Italy)

09:00 - 09:40 **Maternal gut microbiome: long-term effect of the short-term 'programming'** Francesco De Seta (Italy)

09:40 - 10:20 **Breastfeeding and health benefits for the mother-infant dyad: a perspective on human milk microbiota** Ener Dinleyici (Turkey)

10:20 - 10:50 **BREAK**

10:50 - 11:30 **Diet-microbe-host interaction in preterm infant health** Christopher Stewart (UK)

11:30 - 12:10 **The bloom of microbes and immune development during early childhood** Marie Claire Arrieta (CA)

12:10 - 13:30 **LUNCH**

13:30 - 14 :10 **Microbiome-targeted dietary regimens to combat pediatric malnutrition** Siddarth Venkatesh (USA)

14:10 - 14:20 **Wrap-up Session I** Flavia Indrio (Italy)

Session II. Chair Hania Szajewska (Poland)
Microbiome, nutritional modulators and health outcomes Co-Chair Jose Junqueira (Brazil)

14:20 - 14:30 **Chair Introduction** Hania Szajewska (Poland)

14:30 - 15:10 **An overview of early-life gut microbiome modulation strategies** Hania Szajewska (Poland)

15:10 - 15:50 **Microbiome at the core: unlocking mechanisms of food allergy at the non-communicable diseases era** Bruno Barreto (Brazil)

END OF DAY 1



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**Session II.
Microbiome, nutritional modulators and health outcomes**

Chair: Hania Szajewska (Poland)
Co-Chair Jose Junqueira (Brazil)

08:30 - 08:35	Chair Introduction	Hania Szajewska (Poland)
08:35 - 09:15	Microbiome and brain development	John Cryan (Ireland)
09:15 - 09:55	Gut microbiota and disorders of gut brain interaction	Rodrigo Vazquez (Mexico)
09:55 - 10:20	BREAK	
10:20 - 11:00	Gut-bone axis - clinical implications	Flavia Indrio (Italy)
11:00 - 11:10	Wrap-up Session II	Hania Szajewska (Poland)

**Session III.
Future of microbiome research - Round table**

Chairs: Hania Szajewska and Flavia Indrio

11:10 - 11:30	Local environmental heterogeneity and impacts on human health and wellness	Andrew Bartko (USA)
11:30 - 11:50	The infant gut virome: knowns, unknowns, and avenues for future studies	Alexandra (Sasha) Zhernakova (The Netherlands)
11:50 - 12:10	Artificial intelligence and microbiome research	Georg Gerber (USA)
12:10 - 12:40	Discussion	Chairs, Speakers, open for questions

END OF DAY 2