

## SATURDAY JUNE 22<sup>ND</sup>

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### E-Poster Session

16.00-16.30

Poster Area 1

Chair: Roberto Berni Canani, *Italy*

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**Topic 2:** ENGRAFTMENT AND MATURATION OF HUMAN MICROBIOME IN EARLY LIFE  
9 e-poster

16:00 – 16:30

Poster Area 2

Chair: Livia Emma, *Italy*

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**Topic 2:** ENGRAFTMENT AND MATURATION OF HUMAN MICROBIOME IN EARLY LIFE  
9 e-poster

16:00 – 16:30

Poster Area 3

Chair: Maria Rescigno, *Italy*

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**Topic 2:** ENGRAFTMENT AND MATURATION OF HUMAN MICROBIOME IN EARLY LIFE  
9 e-poster

16:00 – 16:30

Poster Area 4

Chair: Romano Marabelli, *France*

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**Topic 2:** ENGRAFTMENT AND MATURATION OF HUMAN MICROBIOME IN EARLY LIFE  
9 e-poster

16:00 – 16:30

Poster Area 1

Chair: Roberto Berni Canani, *Italy***Topic 2: ENGRAFTMENT AND MATURATION OF HUMAN MICROBIOME IN EARLY LIFE**

- 43** MATERNAL TRANSFER OF ANTIBIOTIC RESISTANCE GENES TO INFANTS REVEALED BY LONGITUDINAL METAGENOMIC ANALYSIS  
Samat Kozhakhmetov, *Kazakhstan*
- 77** PERINATAL BISPHENOL A IMPAIRS THE GUT MICROBIOTA ESTABLISHMENT AND MATURATION IN OFFSPRING  
Ana López Moreno, *Spain*
- 88** EXPLORING THE ROLE OF BIFIDOBACTERIUM LONGUM SUBSP. INFANTIS M-63 IN SHAPING HEALTHY GUT MICROBIOTA AND ANTI-INFLAMMATION IN INFANTS  
Chendong Xu, *Japan*
- 98** ECZEMA AND DYNAMICS OF EARLY-LIFE STOOL MICROBIOME IN CHINESE PRESCHOOL CHILDREN  
Ting Fan Leung, *Hong Kong*
- 116** CHARACTERIZATION OF LACTO-N-TETRAOSE TRANSPORTER VARIANTS OF BIFIDOBACTERIUM AND THEIR RELEVANCE FOR ESTABLISHMENT OF THE GUT MICROBIOME DURING INFANCY  
Mikiyasu Sakanaka, *Japan*
- 144** THE ROLE OF RESIDENTIAL GREEN ENVIRONMENT IN THE DEVELOPMENT OF GUT MICROBIOTA IN INFANCY – THE STEPS STUDY  
Minka Ovaska, *Finland*
- 147** PREBIOTIC POTENTIAL OF VAGINAL LIMOSILACTOBACILLUS VAGINALIS BC17 DERIVATIVES  
Barbara Giordani, *Italy*
- 164** HOST PROTEINS DRIVING GUT MICROBIOME MATURATION IN EARLY LIFE  
Niels Van Best, *The Netherlands*
- 185** JOURNEY TO ADULTHOOD: INFANT GUT MICROBIOTA AND DIET CROSS PATHS IN THE BREAKDOWN OF DIETARY FIBRE  
Evgenia Dikareva, *Finland*

16:00 – 16:30

Poster Area 2

Chair: : Livia Emma, *Italy***Topic 2: ENGRAFTMENT AND MATURATION OF HUMAN MICROBIOME IN EARLY LIFE**

- 198** WHY DO BABIES CRY? EXPLORING THE ROLE OF THE GUT MICROBIOTA AND OTHER BIOPSYCHOSOCIAL FACTORS IN COLIC AND OTHER FUNCTIONAL GASTROINTESTINAL SYMPTOMS IN THE KOALA BIRTH COHORT STUDY  
David Barnett, *The Netherlands*
- 221** HUMAN MILK METABOLITES ASSOCIATION WITH INFANT GUT MICROBIOME AND METABOLOME DEVELOPMENT  
Heidi Isokääntä, *Finland*
- 248** THE INFLUENCE OF THE ENVIRONMENT ON HUMAN BREASTMILK AND INFANT GUT MICROBIOME COMPOSITION: A COHORT STUDY IN THE URBAN AMAZON, BRAZIL  
Minseung Kim, *USA*
- 262** STOOL CONSISTENCY AND GUT MICROBIOME AND METABOLOME IN YOUNG CHILDREN: FINNBRAIN STUDY  
Anna Aatsinki, *Finland*
- 263** THE INFANT MICROBIOTA HOPSCOTCHES BETWEEN COMMUNITY STATES TOWARDS MATURATION  
Monika Schaubek, *Germany*
- 289** DYNAMICS OF NORMAL AND POTENTIALLY PATHOGENIC GUT MICROBIOTA OF HEALTHY NEWBORNS  
Asya Asenova, *Bulgaria*
- 291** GUT MICROBIOTA WELLBEING INDEX PREDICTS OVERALL HEALTH IN A COHORT OF 1000 INFANTS  
Brandon Hickman, *Finland*
- 304** EARLY INFANT ORAL MICROBIOME COLONIZATION AND MATURATION IN DIVERSE SOCIOECONOMIC SETTINGS IN THE URBAN AMAZON, BRAZIL  
Marina Quintas dos Santos, *Brazil*
- 396** ELUCIDATING THE ROLE OF PROBIOTICS IN SHAPING THE FUNCTIONAL LANDSCAPE OF THE GUT MICROBIOTA IN PRETERM INFANTS  
Ali R. Zomorrodi, *USA*

16:00 – 16:30

Poster Area 3

Chair: Maria Rescigno, *Italy***Topic 2: ENGRAFTMENT AND MATURATION OF HUMAN MICROBIOME IN EARLY LIFE**

- 412** SYSTEMS BIOLOGY ANALYSIS OF HOST-GUT MICROBIOME CO-METABOLISM IN EARLY LIFE  
Almut Heinken, *France*
- 434** CONTINUOUS ANTIBIOTIC PROPHYLAXIS HAS LONG-LASTING EFFECTS ON THE GUT MICROBIOME STRUCTURE AND FUNCTIONALITY IN INFANTS WITH VESICoureTERAL REFLUX  
Federica D'Amico, *Italy*
- 448** MATERNAL CELIAC DISEASE INFLUENCES EARLY-LIFE MICROBIAL COLONIZATION IN THE INFANT GUT VIA BREAST MILK MICROBIOME AND METABOLOME  
Ali R. Zomorodi, *USA*
- 471** THE ORAL PLACENTA INFANT MICROBIOME STUDY (OPIUM): PERINATAL FACTORS AFFECT EARLY LIFE MICROBIOME ESTABLISHMENT  
Kevin Linehan, *Ireland*
- 477** PRIORITY EFFECTS, NUTRITION AND HMO-METABOLISM DRIVE BIFIDOBACTERIUM LONGUM SUBSPECIES DYNAMICS IN THE INFANT GUT MICROBIOME  
Nicholas Pucci, *The Netherlands*
- 480** EFFECTS OF PRENATAL AND PERINATAL PROBIOTICS ON P. GINGIVALIS-CHALLENGED MICE  
Michel Messoria, *Brazil*
- 498** IMPACT OF PRENATAL PREBIOTIC INTERVENTION ON HUMORAL IMMUNITY TO MATERNAL AND INFANT GUT MICROBIOTA DURING PREGNANCY AND EARLY LIFE  
Dhilly Elise, *France*
- 502** INTEGRATED ANALYSIS OF COLOSTRUM BIOACTIVES: UNRAVELING THE IMPACT OF MATERNAL OBESITY ON CYTOKINES, METABOLITES, AND MICROBIOTA  
July S. Gámez Valdez, *Mexico*
- 519** THE EFFECT OF MATERNAL PREBIOTIC SUPPLEMENTATION ON THE BREASTMILK MICROBIOME  
Alicia Y. J. Tan, *Singapore*

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Poster Area 4

Chair : Romano Marabelli, *France***Topic 2: ENGRAFTMENT AND MATURATION OF HUMAN MICROBIOME IN EARLY LIFE**

- 525** SPECIES-LEVEL ANALYSIS OF BREAST MILK MICROBIOME USING CPN60-BASED SEQUENCING  
Zahra Pakzad, *Canada*
- 545** RESTORATION OF GUT MICROBIOTA WITH A SPECIFIC SYNBIOTIC-CONTAINING INFANT FORMULA IN HEALTHY CHINESE INFANTS BORN BY CAESAREAN SECTION  
Guus Roeselers, *The Netherlands*
- 576** ORAL AND FECAL MICROBIOME FROM PRETERM BABIES BORN FROM HYPERTENSIVE MOTHERS ARE CONTROLLED BY TIME IN NICU  
Carla Taddei, *Brazil*
- 578** A METATAXONOMIC AND METABOLOMIC APPROACH REVEALS THE IMPACT OF MATERNAL MICROBIAL SUCCESSION ON INFANT MICROBIOME DEVELOPMENT  
Mitali Inamdar, *India*
- 618** PHYLOGENETIC MIXED MODEL ANALYSIS OF INFANT GUT MICROBIAL SPECIES AGAINST A BROAD RANGE OF MATERNAL AND INFANT PHENOTYPES  
Alexander Kurilshikov, *Russia*
- 642** EARLY INTESTINAL COLONIZATION, PERINATAL FACTORS, AND NEUROCOGNITIVE PROFILE IN A LONGITUDINAL COHORT OF CHILDREN  
María Carmen Collado, *Spain*
- 643** IMPACT OF ANTIMICROBIAL USAGE ON GUT RESISTOME DEVELOPMENT FROM SIX WEEKS TO TWO YEARS OF AGE IN ZAMBIAN INFANTS, A PROSPECTIVE COHORT STUDY  
Gonçalo J. Piedade, *The Netherlands*
- 648** PARALLELING EPIGENETIC PROFILES AND EARLY LIFE MICROBIAL COLONIZATION IN ASD PATIENTS AND IN AN ANIMAL MODEL OF ANTIBIOTIC-INDUCED BACTERIAL DEPLETION  
Francesca Lembo, *Italy*