

MONDAY JUNE 24TH**E-Poster Session****08:00 – 09:00**Chair: Alfredo Guarino, *Italy***Poster Area 1****Topic 4: MICROBIOTA & DISEASES**

18 e-poster

Chair: Maria Vasile, *Belgium***Poster Area 2****Topic 4: MICROBIOTA & DISEASES**

18 e-poster

Chair: Maria Rescigno, *Italy***Poster Area 3****Topic 4: MICROBIOTA & DISEASES**

18 e-poster

Chair: Alessio Fasano, *USA***Poster Area 4****Topic 4: MICROBIOTA & DISEASES**

19 e-poster

MONDAY JUNE 24TH

E-Poster Session

08:00 – 09:00

Poster Area 1

Chair : Alfredo Guarino, *Italy*

Topic 4: MICROBIOTA & DISEASES

- 6** GUT MICROBIOTA DETERMINES WHETHER PREDIABETES CAN BENEFIT FROM DIETARY FIBER INTERVENTION
Chenhong Zhang, China
- 13** ORAL MICROBIOTA IN AUTISTIC CHILDREN: DIAGNOSIS-RELATED DIFFERENCES AND ASSOCIATIONS WITH CLINICAL CHARACTERISTICS
Margaux Evenepoel, Belgium
- 15** METAGENOMIC MICROBIAL INTERACTOME IN PANCREATIC DISEASES COMPARED TO HEALTHY INDIVIDUALS
Laura Vilà-Quintana, Spain
- 21** MICROBIOTA AND TUMOR LOCATION IN COLORECTAL CANCER
Sofia Elena Tesolato, Spain
- 22** MICROBIOTA BIOMARKERS WITH POTENTIAL CLINICAL USEFULNESS IN THE DIAGNOSIS OF COLORECTAL CANCER
Juan Vicente-Valor, Spain
- 30** ANTIDEPRESSANTS AND THE COMPOSITION AND FUNCTION OF THE GASTROINTESTINAL MICROBIOME IN WOMEN LIVING WITH FIBROMYALGIA
Joanna Harnett, Australia
- 32** MULTIOMICS PROFILING FOR A COMPREHENSIVE UNDERSTANDING OF IMMUNE AND MICROBIAL SIGNATURES IN PEDIATRIC INFLAMMATORY BOWEL DISEASE
Souhaila Al Khodor, USA
- 35** DYSBIOTIC MICROBIOME IMPAIRS HEART FUNCTION BY DISRUPTING CIRCADIAB RHYTHM AND MAGNESIUM HOMEOSTASIS IN INFLAMMATORY BOWEL DISEASE
Qingjie Li, USA
- 37** THE LINKS BETWEEN GUT MICROBIOTA, CIRCULATING CYTOKINES, AND ALZHEIMER'S DISEASE
Sholpan Askarova, Kazakhstan

- 42 DYSBIOSIS OF THE GUT MICROBIOME IS RELEVANT TO ORAL MICROBIOME PROFILE IN PATIENTS WITH PERIODONTITIS
Kazuhisa Yamazaki, *Japan*
- 45 GUT MICROBIOME-SERUM METABOLOME INTERPLAY IN INDIVIDUALS WITH RHEUMATOID ARTHRITIS
Madiyar Nurgaziyev, *Kazakhstan*
- 47 CROSSTALK BETWEEN GUT MICROBIOME AND CYTOKINES IN RHEUMATOID ARTHRITIS
Argul Issilbayeva, *Kazakhstan*
- 48 GUT MICROBIOME AT THE SCOPE OF PROBIOTIC THERAPY IN RHEUMATOID ARTHRITIS PATIENTS
Assel Meiramova, *Kazakhstan*
- 52 VIROME, INFLAMMATION, AND METABOLISM- DERIVED MOLECULES FOR THE STRATIFICATION OF AMYOTROPHIC LATERAL SCLEROSIS PATIENTS
Elena Niccolai, *Italy*
- 53 UPDATE ON THE HUMAN ORAL MICROBIOME AND RISK OF COLORECTAL CANCER (CRC) FROM THREE PROSPECTIVE COHORT STUDIES
Rashmi Sinha, *USA*
- 55 GUT MICROBIOME'S ROLE IN CHRONIC HEART FAILURE DEVELOPMENT
Zharkyn Jarmukhanov, *Kazakhstan*
- 56 ANTIBIOTIC USE IN THE PAST EIGHT YEARS IS ASSOCIATED WITH THE GUT MICROBIOTA IN A POPULATION-BASED STUDY IN SWEDEN
Gabriel Baldanzi, *Sweden*
- 60 DISCOVERY OF NOVEL CELLULAR MECHANISMS OF VASCULAR ENDOTHELIAL BARRIER ENHANCEMENT IN RESPONSE TO BACTERIAL METABOLITES ORIGINATING FROM HEALTHY GUT MICROBIOTA
Garcia-Weber Diego, *France*

08:00 – 09:00

Poster Area 2

Chair: : Maria Vasile, *Belgium*

Topic 4: MICROBIOTA & DISEASES

- 61 COMPOSITIONAL AND DIVERSITY CHANGES IN RAT INTESTINAL MICROBIOME INDUCED BY $^{31}\text{SiO}_2$ PARTICLE RADIATION
Nurislam Mukhanbetzhanov, *Kazakhstan*
- 62 DISCOVERY OF HUMAN GUT BACTERIA THAT PRODUCE SEROTONIN AND PROMOTE COLONIC INNERVATION
Chiara H. Moretti, *Sweden*

- 63** DATA-DRIVEN APPROACH TO ANTIBIOTIC DISCOVERY
Saar Shoer, *Israel*
- 64** INVESTIGATION INTO THE GUT MICROBIOME IN ACUTE MYOCARDIAL INFARCTION.
Zhanel Mukhanbetzhanova, *Kazakhstan*
- 65** COMPREHENDING THE COMPOSITION OF GUT MICROBIOTA IN CASES OF ACUTE MYOCARDIAL INFARCTION
Shynggys Sergazy, *Kazakhstan*
- 69** THE MICROBIAL COMMUNITIES IN INDIVIDUALS WITH INFLAMMATORY BOWEL DISEASES (IBD) COMPARED TO HEALTHY HOUSEHOLD INDIVIDUALS
Sybat Seidulla, *Kazakhstan*
- 70** IDENTIFICATION OF OXYTOCIN-ANTIGEN MIMETIC PROTEINS IN LACTOBACILLUS SALIVARIUS AND THEIR FUNCTIONAL VALIDATION IN AN ANIMAL MODEL OF AUTISM
Sergueï Fetissov, *France*
- 71** EFFECTS OF ENTEROBACTERIAL CLPB PROTEIN IMMUNIZATION ON FEEDING AND LOCOMOTOR BEHAVIOR AND GUT MICROBIOTA COMPOSITION IN MICE WITH ACTIVITY-BASED ANOREXIA
Sergueï Fetissov, *France*
- 73** THE ROLE OF THE INTESTINAL MICROBIOME IN DEPRESSION AND IMPACT FOR SUICIDE
Alibek Kossumov, *Kazakhstan*
- 78** ATF6 ACTIVATION ALTERS COLONIC LIPID METABOLISM CAUSING TUMOR-ASSOCIATED MICROBIAL ADAPTATION
Alessandra Riva, *Germany*
- 79** IMPLICATION OF A BACTERIAL QUORUM SENSING MOLECULE IN INFLAMMATION AND INTESTINAL BARRIER FUNCTION IN INFLAMMATORY BOWEL DISEASE
Raphaëlle Liquard, *France*
- 80** ALTERED GASTRIC MICROBIOME IN DRUG RESISTANCE HELICOBACTER PYLORI
Astri Dewayani, *Indonesia*
- 83** A PILOT STUDY OF THE ORAL MICROBIOME AND BREAST CANCER RISK IN THE NIH-AARP DIET AND HEALTH STUDY
Emily Vogtmann, *USA*
- 84** THE ROLE OF HOST GENES AND MICROBES IN MECHANISMS OF RESPONSE TO THERAPY IN RECTAL CANCER
Adèle Hegoburu, *New Zealand*

- 89** EXPLORING GUT MICROBIOME DIFFERENCES IN ALOPECIA AREATA WITH AND WITHOUT COEXISTING HASHIMOTO'S THYROIDITIS
Zhussipbek Mukhatayev, *Kazakhstan*
- 90** STUDY OF IMMUNE-TARGETED GUT MICROORGANISMS IN ALOPECIA AREATA
Nurlubek Katkenov, *Kazakhstan*
- 92** HUMAN MICROBIOTA TRANSPLANTATION IN A MOUSE MODEL FOR AUTISM: EFFECT OF A PROBIOTIC INTERVENTION
Lucía N. Peralta Marzal, *The Netherlands*
- 95** EVALUATION OF NUTRITION-MICROBIOME-METABOLOME AXIS IN GUT INFLAMMATION PROCESSES
Indre Aleknaviciene, *Lithuania*

08:00 – 09:00

Poster Area 3

Chair: Maria Rescigno, *Italy***Topic 4: MICROBIOTA & DISEASES**

- 96** PREDICTING RELAPSE IN INFLAMMATORY BOWEL DISEASE USING MULTI-OMICS AND MACHINE LEARNING
Jill O'Sullivan, *Ireland*
- 97** RELATIONSHIP BETWEEN EARLY-ONSET ECZEMA AND SKIN MICROBIAL DIVERSITY AND COMPOSITION IN A CHINESE BIRTH COHORT
Ting Fan Leung, *Hong Kong*
- 101** MICROBIAL NICHES AND MOLECULAR MIMICRY IN THE AETIOLOGY OF TYPE 1 DIABETES
Holly L. Roach, *UK*
- 103** MICROBIOTA-GUT-ORAL AXIS ANALYSIS IN ST-ELEVATION MYOCARDIAL INFARCTION IN MEXICAN PATIENTS
Oscar R. Aguilar Villegas, *Mexico*
- 104** GUT MICROBIOME IN CHILDREN WITH CONGENITAL HEART DISEASE AFTER CARDIOPULMONARY BYPASS SURGERY (GUMIBEAR STUDY)
Fatma Koc, *Ireland*
- 105** CHANGES IN IGA-COATED GUT MICROBIAL STRAINS IN PATIENTS WITH MULTIPLE SCLEROSIS FOLLOWING B CELL DEPLETION THERAPY
Vinod Kumar Gupta, *USA*
- 106** THE GUT MICROBIOTA DICTATES COLONIC HEALING IN COLORECTAL CANCER SURGERY BY MODULATING THE MUCOSAL LEVELS OF PRO-INFLAMMATORY CYTOKINES
Manuela Santos M., *Canada*

- 113** EXPLORE A NOVEL NON-ANTIBIOTIC TREATMENT ON BACTERIAL VAGINOSIS VIA PALAVIGOR CHARMING GEL
Qiongjiong Zhang, *China*
- 118** ROLE OF PATHOGENIC AGENTS IN DEVELOPMENT OF INFECTIOUS HYDROCEPHALUS IN SUB SAHARAN AFRICA
Mercedeh Movassagh, *USA*
- 123** SMALL INTESTINAL MICROBIOME IS AN IMPORTANT DETERMINANT OF DIARRHEA IN A SUBSET OF PATIENTS
Isin Yagmur Comba, *USA*
- 127** DONOR-DERIVED BACTERIAL SPECIES AND PATIENT-DONOR SIMILARITY CONTRIBUTE TO THE EFFICACY OF ANTIBIOTIC FMT IN ULCERATIVE COLITIS
Dai Ishikawa, *Japan*
- 130** AEROBIC BACTERIAL GROUP AS AN EARLY-STAGE BIOMARKER FROM FECAL SAMPLES OF PATIENTS WITH COLORECTAL CANCER WITHOUT DISTANT METASTASIS
Donghyoun Lee, *South Korea*
- 132** META-ANALYSIS OF SHOTGUN METAGENOMES AND METABOLOMIC ANALYSES REVEAL THAT DECREASED FECAL BIOSYNTHESIS OF RIBOFLAVIN AND BIOTIN REDUCE SHORT-CHAIN FATTY ACIDS AND POLYAMINES IN THE GUT IN PARKINSON'S
Hiroshi Nishiwaki, *Japan*
- 136** ANALYSIS OF NASAL MICROBIOME IN CHRONIC RHINOSINUSITIS PATIENTS WITH NASAL POLYPS
Min-Jung Lee, *South Korea*
- 137** THE HUMAN NASAL MICROBIOME: A PERSPECTIVE STUDY DURING SARS-COV-2 PANDEMIC IN MALTA
David Pinzauti, *Malta*
- 142** ORAL FUNGAL COLONIZATION AND ITS ASSOCIATED BACTERIAL COMPOSITION AND HEALTH STATUS IN ELDERLY ADULTS
Mikari Asakawa, *Japan*
- 146** EXPLORING THE GUT MICROBIOME AND MYCOBIOME IN GLIOBLASTOMA PATIENTS
Michaela Herz, *Germany*
- 151** ORAL MICROBIOME PROFILES ACROSS PERIODONTAL HEALTH AND VARIOUS STAGES OF PERIODONTAL DISEASE: A SHOTGUN METAGENOMIC STUDY
Muhammed Manzoor, *Finland*

Chair: Alessio Fasano, USA

Topic 4: MICROBIOTA & DISEASES

- 159** IDENTIFICATION OF POTENTIALLY SHARED AUTOANTIBODIES IN ALOPECIA AREATA AND HASHIMOTO'S THYROIDITIS THROUGH PHIP-SEQ ASSAY
Artur Kovenskiy, *Kazakhstan*
- 160** ANALYSIS OF SEROTYPE, GENOTYPE AND VIRULENCE GENE COMPOSITION OF GBS
Zhen Zeng, *China*
- 162** A PERSONALISED CANCER-ON-CHIP MODEL FOR THE STUDY OF GUT MICROBIOTA IN COLORECTAL CANCER INITIATION AND PROGRESSION
Polina Turbina, *Luxembourg*
- 165** DETECTION OF DYSBIOSIS AND INCREASED GUT PERMEABILITY AND INFLAMMATORY CYTOKINES IN COVID-19 PATIENTS
Larissa S. Souza, *Brazil*
- 166** EXPLORING AMMONIA OXIDIZING ARCHAEA ON HUMAN SKIN: UNVEILING DIVERSITY, FUNCTIONS, AND IMPLICATIONS FOR HEALTH
Alexander Mahnert, *Austria*
- 170** COMBINED ANALYSIS OF GUT MICROECOLOGICAL CHARACTERISTICS IN ENDOMETRIAL CARCINOMA PATIENTS USING 16S RRNA SEQUENCING AND NON-TARGETED METABOLOMICS
Yuhui Sun, *China*
- 171** RESPICAT: RESPIRATORY CATALOG OF METAGENOME-ASSEMBLED GENOMES (MAGS)
Tejus Shinde, *Austria*
- 173** GUT MICROBIOTA AND ENDOMETRIAL CANCER: RESEARCH PROGRESS ON THE PATHOGENESIS AND APPLICATION
Yuhui Sun, *China*
- 175** GLIPTIN INHIBITION HETEROGENEITY ON THE DPP4-LIKE ENZYMES ENCODED IN THE HUMAN INTESTINAL MICROBIOME
Paula Hernández-Calderón, *Spain*
- 176** THE ROLE OF THE INTESTINAL MICROBIOTA DURING TAMOXIFEN THERAPY IN BREAST CANCER PATIENTS
Lars Hillege, *The Netherlands*
- 177** IDENTIFICATION OF MICROBIAL BIOMARKERS FOR RELAPSE PREDICTION IN PAEDIATRIC ULCERATIVE COLITIS
Maria Kulecka, *Ireland*

- 179** RESEARCH STATUS OF INTESTINAL FLORA IN INSULIN RESISTANCE INDUCED ENDOMETRIAL CARCINOMA
Yuhui Sun, *China*
- 182** THE DPP4-LIKE ACTIVITY ENCODED IN THE HUMAN GUT MICROBIOME SUPPORTS THEIR FUNCTIONAL MIMICRY TO CONTROL HOST METABOLISM AND BEHAVIOUS
Alfonso Benitez-Paez, *Spain*
- 183** UNVEILING THE GUT-LUNG AXIS: A NEW ACTION WAY IN MICROBIOME DYNAMICS UNDER NANOPLASTIC EXPOSURE
Elena Niccolai, *Italy*
- 184** THE CONTRIBUTION OF INTERCONTINENTAL TRAVEL ON THE RESILIENCE AND STABILITY OF THE GUT MICROBIOTA
Jiyang Chan, *The Netherlands*
- 188** LACTOBACILLUS AND BIFIDOBACTERIUM DIVERSITY IN GABONESE WOMEN BREASTMILK : PERSPECTIVE FOR ANTIBIOTHERAPY
Lokossou Gatien, *Benin*
- 189** A PREBIOTIC FIBER MIXTURE INCREASED BENEFICIAL GUT BACTERIA IN FECAL SAMPLES FROM COLORECTAL CANCER PATIENTS
Janine Ziemons, *Germany*
- 191** POTENTIAL OF LACTIPLANTIBACILLUS PLANTAURM ISOLATED FROM ORANGE TO COUNTERACT INFECTIOUS DISEASES
Asia Pizzi, *Italy*
- 196** MITOCHONDRIAL PERTURBATION OF THE EPITHELIUM CAUSES MICROBIAL DYSBIOSIS AND UNRESOLVED TISSUE INJURY IN INTESTINAL INFLAMMATION
Doriane Aguanno, *Germany*