

Wednesday, Oct 13th 2021

9:15	9:25	Time for connexion
9:25	9:30	Welcome

Session 1: Impact of diet and additives on gut microbiota and health

9:30	10:10	Benoît CHASSAING (France)	Modern stressors of the intestinal microbiota in chronic inflammatory diseases
10:10	10:30	Meredith HULLAR (USA)	Effects of high- and low- glycemic load diets on the structure and function of the human gut microbiome
10:30	10:50	Shripada RAO (Australia)	Probiotic supplementation in neonates with gastrointestinal surgical conditions: A Pilot Randomized Double Blind Placebo Controlled Trial
10:50	11:30	Tom VAN DE WIELE (Belgium)	Impact of dietary emulsifiers on the human gut microbiota
11:30	11:50	Lysiane DUNIERE (France)	A live yeast supplementation to gestating ewes improves bioactive molecules composition in colostrum with no impact on its bacterial composition and beneficially affects immune status of the offspring
11:50	12:10	Martin BEAUMONT (France)	Age, solid food introduction and suckling cessation differentially influence the maturation of the gut microbiota and intestinal epithelium in early life

LUNCH BREAK

14:00	14:30	Posters on display + Sponsor exhibition
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Session 2: Cross-talk between gut microbiota and the host

14:30	15:10	Thomas CLAVEL (Germany)	Culture-based studies of microbe-host interactions
15:10	15:30	Daming SUN (China)	Rumen developmental plasticity manipulated by microbial-host interaction in a lamb model with massive nutritional variations
15:30	15:50	Jennifer KELLY (UK)	Characterizing the dysbiotic gut microbiome and altered epithelial cell density profile within the small intestinal mucosa of both CF patients and mouse models
15:50	16:10	Maïte CASADO-BEDMAR (France)	Colitis-associated faecal miRNA increases intestinal bacterial permeability and intestinal inflammation in mice
16:10	16:30	Aimee PARKER (UK)	Gut microbiota regulate hallmarks of inflammaging in the gut, eye, and brain

Thursday, Oct 14th 2021

9:45	10:00	Time for connexion
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Session 3: New approaches to study the gut microbiome

10:00	10:40	Ines THIELE (Ireland)	
10:40	11:00	Anna WEISS (Germany)	Exploring the interaction network of a synthetic gut bacterial community
11:00	11:20	Indrani MUKHOPADHYA (UK)	Comparison of human gut microbial profiles of matched faecal and biopsy samples from healthy individuals using culture dependent and independent methods
11:20	11:40	Thea OS ANDERSEN (Norway)	Exploring protozoal function and their greater metabolic influence in the rumen microbiome using (meta)genome-resolved metaproteomics
11:40	12:00	Shiraz SHAH (Denmark)	Manual resolution of virome dark matter uncovers hundreds of viral families in the infant gut

LUNCH BREAK

13:30	14:00	Posters on display + Sponsor exhibition
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Poster orals: Organizing committee choice

14 :00	14 :05	Lauren SCHOOOTH (Australia)	Characterisation of duodenal mucosa-associated microbiota and isolation of novel <i>Veillonella</i> spp., via a novel ex-vivo combination of microbe culture and metagenomic sequencing. The Brisbane Approach.
14 :05	14 :10	Mick WATSON (UK)	Scaling metagenomics to thousands of samples, and why it's important
14 :10	14 :15	Sophie MARRE (France)	Revealing large microbial species diversity hidden behind 16S rRNA OTUs obtained from metabarcoding.
14 :15	14 :20	Courtney THOMAS (France)	Abundance and diversity of intestinal archaea across the animal kingdom
14 :20	14 :25	Alejandro BELANCHE (Spain)	Use of plant extracts to improve rumen development, health and performance in young goats
14 :25	14 :30	Xufei ZHANG (France)	Emerging Role of the Gut Microbiota in Choline-induced Atherosclerosis through the Modulation of Apolipoprotein A-I/HDL levels
14 :30	14 :35	Tamsin REDGWELL (Denmark)	Prophages in the infant gut are largely induced and may be functionally relevant to their hosts.
14 :35	14 :40	Chee Kin THEN (UK)	Can the gut microbiota both radiosensitise tumours and spare normal tissue toxicity?
14 :40	14 :45	Linda OYAMA (UK)	A multidisciplinary understanding of antimicrobial resistance on Brazilian farms
14 :45	14 :50	Natalia MOLINERO GARCIA (Spain)	Survival strategies and metabolic interactions between two bacterial species isolated from human bile

Session 4: Interplay between gut microbiome and the environment

15 :20	16 :00	Sharon HUWS (UK)	Niche specialization and ecological plasticity within the rumen microbiome
16 :00	16 :20	Karla Fabiola CORRAL JARA (France)	Metatranscriptomic analysis of rumen microbiota in cows and goats points to species specific genes participating to rumen methane emissions
16 :20	16 :40	Dominic POULAIN-LAPRADE (Canada)	Longitudinal metagenomics study of fecal microbiota and resistome of pigs reared without antibiotics or with penicillin prophylaxis

Friday, Oct 15th 2021

9 :45	10 :00	Time for connexion
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Session 4: Interplay between gut microbiome and the environment

10 :00	10 :40	Muriel MERCIER BONIN (France)	Micro- and nano-plastics in our diet: emerging contaminants for new challenges in food toxicology and intestinal health
10 :40	11 :00	Junyan LIU (UK)	Broad host range dissemination of antibiotic resistance in the human microbiome
11 :00	11 :20	Marie-Agnès PETIT (France)	Analysis of viromes and microbiomes from pig fecal samples reveals that phages and prophages are not vectors of antibiotic resistance genes

11 :20	11 :50	Posters on display + Sponsor exhibition
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LUNCH BREAK

Poster orals: Attendees choice

13:30	13:35	Christoph ROTH (Germany)	The core microbiome of two high-yielding laying hen strains
13:35	13:40	Sabrine NAIMI (France)	Use of <i>in vitro</i> microbiota system to characterize and understand inter-individual variations in response to food additives
13:40	13:45	Anna-Maria MALINOWSKA (The Netherlands)	The association between the abilities of gut microbiota to metabolize cholesterol and produce trimethylamine and blood lipid profile.
13:45	13:50	Ambrin-Farizah BABU (Finland)	A comprehensive non-targeted metabolomic analysis in adipose tissue, plasma, urine, and stool of the effect of exercise on NAFLD
13:50	13:55	María VELASCO-GALILEA (Spain)	Bayes factor for elucidating the genetic determinism of rabbit cecal microbiota through mixed normal and zero-inflated Poisson models.
13:55	14:00	Ibrahim FAKIH (France)	Genome-scale network reconstruction of the predominant cellulolytic rumen bacterium <i>Fibrobacter succinogenes</i> S85
14:00	14:05	Hugo ROUME (France)	Gut microbiome profiling: a multicenter evaluation study
14:05	14:10	Wade ABBOTT (Canada)	Unraveling the dietary carbohydrate-gut microbiome interaction using glyco-enabling tools
14:10	14:15	Elora FOURNIER (France)	Fate and impact of microplastics in <i>in vitro</i> human digestive environment and dialogue between epithelium, gut microbiota and mucus
14:15	14:20	Noshin DAUD (UK)	Human gut microbiota hydrolyse masked mycotoxins – <i>in vitro</i> and <i>in vivo</i> evidence
14:20	14:30	Concluding remarks	

Rumen Microbial Genomics Workshop

14:50	15:00	Introduction from Prof. Sharon Huws Queen's University Belfast UK	
15:00	15:30	Sinead WATERS - Teagasc Ireland Keynote Speaker	
15:30	15:45	Laureen CROUZET Ag Research, New Zealand	Effect of <i>Lactobacillus plantarum</i> ML128 on the rumen methanogen community: an in vitro and in vivo study
15:45	16:00	Timur YERGALIYEV Hohenheim University, Germany	Effect of seaweed supplementation on bacterial and archaeal microbiota in a rumen simulation
16:00	16:15	Stephen COURTNEY Queens's University Belfast UK	Changes in adaptive diversity and niche specialization in the gut microbial metagenome of <i>Ovis aries</i>
16:15	16:30	Hanna HUUKI LUKE, Finland	Effects of early-life rumen microbiota modulation on rumen bacterial community development and function in heifers
16:30	16:45	Mohsen DAVOUDKHANI INRAE, France	Towards the integration of microbial genomic knowledge into mechanistic models of the rumen microbiome: a theoretical study
16:45	17:00	Open discussion on the future of livestock microbiome research and wrap up	

