

WELCOME TO...

13TH INTERNATIONAL GUT MICROBIOLOGY SYMPOSIUM 2023

The University of Aberdeen warmly welcomes delegates and invited guests to the 13th Joint Symposium organised by the Rowett Institute, University of Aberdeen, Scotland (UK) and INRAE Clermont Auvergne Rhône Alpes Centre, Clermont Ferrand, (France).

Held at P&J Live on the 13-15th June 2023, the 13th International Gut Microbiology Symposium aims to explore the role of the complex microbial ecosystem present in the digestive tract of humans and animals in maintaining host health. A particular focus will be on microbe-microbe and microbe-host interactions to advance our understanding of the role of these interactions in host welfare and health.

Sessions will focus on topics including colonisation resistance, spread of genes through environmental ecosystems, and successes in translating research into practice. Studies on all other topics related to the gut microbiota, including developing new approaches to study interactions between nutrition and gut microbial ecosystems as well as cross-talk between microorganisms and their host will also be welcomed.

Topics will include:

- Interactions between microbiota, pathogens and host
- Impact of nutrition on gut microbiome and health
- One Health – Linking microbes in the environment, humans and animals
- Beyond the lab: Applying microbiome research in practice
- Other



Local Scientific Organising Committee:

- Karen Scott (Chairperson)
- Sylvia Duncan
- Silvia Gratz
- Petra Louis
- Alan Walker



French Organising Committee:

- Annick Bernalier-Donadille
- Evelyne Forano
- Diego Morgavi
- Pascale Mosoni
- Milka Popova
- Panagiotis Sapountzis
- Lucie Etienne -Mesmin

Event Organisers:

- CPD Services (University of Aberdeen)

For news and updates follow  @gutmicro2023 and use the hashtag #gutmicro2023

TUESDAY 13TH JUNE 2023

08:00 – 13:30	Satellite Meeting Gateway to Global Enteric Methane Reduction (Workshop) Co-Organised by Sharon Huws & Matthias Hess	Hilton (TECA)
11:00 – 17:30	Main Symposium Registration	P&J Live, First Floor, Upstairs Right View Area
14:00 – 14:05	Welcome: Karen Scott	Conference Suite 1A
14:05 – 15:30	Session 1: Interactions between microbiota, pathogens and host Session Chairs – Alan Walker and Lucie Etienne Mesmin	Conference Suite 1A
14:05 – 14:50	IT 01: Using the Oligo-Mouse-Microbiota to understand gut microbiota ecology, evolution and pathogen exclusion	Bärbel Stecher
14:50 – 15:10	OT 01: Towards a better description of the interactions of food-borne pathogen Enterotoxigenic Escherichia coli with intestinal mucus and human microbiome	Lucie Etienne-Mesmin
15:10 – 15:30	OT 02: Comparative analysis of 4 enteropathogens in mice with complex and OligoMM12 microbiota	Mathias Klaus-Maria Herzog
15:30 – 16:00	Refreshment Break	Conference Suite 1B/1C
16:00 – 17:20	Session 1 continued...	Conference Suite 1A
16:00 – 16:20	OT 03: An IBD-associated pathobiont collaborates with the NSAID to promote inflammation and cell death in a susceptible host via the caspase-8/NLRP3 axis	Raminder Singh
16:20 – 16:40	OT 04: Revealing the causal relationship between age-associated immune remodelling and changes in the gut microbiome	Selina Stahl
16:40 – 17:00	OT 05: Novel molecular mechanisms by commensal bacteria to inform immunomodulatory microbiome therapies	Jorge Gutierrez-Merino
17:00 – 17:20	OT 06: Designing synthetic communities using a functionally-guided approach complemented with metabolic modelling	Thomas Hitch
19:30 – 21:00	Civic Welcome Reception at Town House, Broad St, Aberdeen AB11 5BU (complimentary shuttle buses from P&J Live to Broad Street, will be provided at 18:00)	

KEY:

IT = Invited Talk

OT = Offered Talk

WEDNESDAY 14TH JUNE 2023

09:00 – 10:25	Session 2: Impact of nutrition on gut microbiome and health Session Chairs – Sylvia Duncan and Milka Popova	Conference Suite 1A
09:00 – 09:45	IT 02: Integrating multi-omics and enzymology to untangle systems for typical and atypical glycan processing in gut microbiomes	Sabina Leanti La Rosa
09:45– 10:05	OT 07: Faecal microbiome mediates the effect of diet on colorectal-cancer risk: comparison of meat based versus pescovegetarian diets	Philippe Gérard
10:05 – 10:25	OT 08: The molecular basis of the degradation of flavan-3-ols by the human gut bacterium <i>Eggerthella lenta</i>	Pascale Mosoni
10:25 – 11:00	Refreshment Break	Conference Suite 1B/1C
11:00 – 12:20	Session 2 continued...	Conference Suite 1A
11:00 – 11:20	OT 09: p-Cresol derivatives interact with the blood–brain barrier and highlight the complex nature of microbiota–host communication pathways associated with the gut–brain axis	Lesley Hoyles
11:20 – 11:40	OT 10: Inter-individual differences in segmental transit time and pH are linked to the human gut microbiome composition and metabolism	Nicola Procházková
11:40 – 12:00	OT 11: Oligofructose Improves Small Intestinal Lipid-Sensing Mechanisms via Alterations to the Small Intestinal Microbiota	Frank Duca
12:00 – 12:20	OT 12: The impact of seaweed-based nutritional manipulation on the rumen microbiome	Alessandra Ferrillo
12:20 – 13:30	Lunch	Conference Suite 1B/1C
13:30 – 15:30	Poster session ODDS with Tea & Coffee from 15:00	Conference Suite 1B/1C
15:30 – 16:45	Session 3: Flash Talks (open topic) selected from poster presentations Session Chairs – Karen Scott and Petra Louis	Conference Suite 1A
15:30 – 15:35	P008: Mitochondrial complex I dysfunction promotes microbial composition that impacts on ulcerative colitis	Leticia Abecia
15:35 – 15:40	P023: A gut microbiome perspective of extracellular vesicle-mediated communication between human cells and bacteria	Simon Swift
15:40 – 15:45	P028: Surf and Turf: The Adaptation of Ruminant Microbiomes to Marine forages	Jeff Tingley
15:45 – 15:50	P032: The use of a continuous flow in vitro model to assess the role of psyllium as a potential mechanism for FODMAP consumption in IBS patients	Hannah Harris
15:50 – 15:55	P035: Linking diet and gut microbiota in obesity: usefulness of a new in vitro human mucosal colon model	Stéphanie Blanquet-Diot
15:55 – 16:00	P072: Microbiome-derive metabolites are powerful biomarkers for anal cancer screening	Jana Seifert
16:00 – 16:05	P077: Understanding polyunsaturated fatty acid provisioning by gut microbiota elements through the lens of an earthworm model	Stephanie Schnorr
16:05 – 16:10	P081: Auxotrophies in human gut bacteria are indicative of microbiome stability	Svenja Busche
16:10 – 16:15	P100: The effect of exercise intervention and cardiorespiratory fitness on the gut microbiome: a Generation 100 cohort study	Natalia Bednarska
16:15 – 16:20	P107: Distinct effects of anaerobe gut fungi on feed lignocellulose composition and structure during its degradation	Jolanda van Munster
16:20 – 16:25	P113: Increasing resolution of mycobiome profiling in the human gut	David Schneider
16:25 – 16:45	Q&A	
16:45 – 17:30	Session 2 continued...	Conference Suite 1A
16:45 – 17:30	IT 03: Impact of diet on microbial metabolism in infants and adults	Tine Rask Licht
19:30 for 20:00 until 23:00	Conference Dinner at Ardoe House Hotel & Spa, South Deeside Road, Blairs, AB12 5YP (return coach transportation will be provided)	

Bus Timings: 18:45 from P&J Live / leaving at 19:10 from Broad Street, Aberdeen, AB11 5BU. **Return:** 22:30 to 23:00 staggered bus returns to Broad Street and P&J Live. Please ensure you arrive 10 - 15 minutes prior to bus departure.

THURSDAY 15TH JUNE 2023

09:00 – 10:25	Session 4: One Health – Linking microbes in the environment, humans and animals Session Chairs – Karen Scott and Diego Morgavi	
09:00 – 09:45	IT 04: Antimicrobial resistance in the human gut microbiome	Willem van Schaik
09:45 – 10:05	OT 13: Resistome characterization in neonatal calves and their environments on dairy farms: Implications for AMR surveillance and risk mitigation	Katie Lawther
10:05 – 10:25	OT 14: RiboTaxa: combined approaches for rRNA genes taxonomic resolution down to the species level from metagenomics data revealing novelties	Oshma Chakoory
10:25 – 11:00	Refreshment Break	Conference Suite 1B/1C
11:00 – 12:00	Session 4 continued...	Conference Suite 1A
11:00 – 11:20	OT 15: Analysis of milk, feces and soil microbiomes composition and structure across Quebec dairy farms	Dominic Poulin-Laprade
11:20 – 11:40	OT 16: Linking environmental pollution and gut microbiome in individuals living in highly contaminated settlements	Francesca De Filippis
11:40 – 12:00	OT 17: Recipient independent high accuracy FMT prediction and optimization in mice and humans	Yoram Louzoun
12:00 – 12:20	OT 18: The human gut microbiome explored at single nucleotide resolution	Falk Hildebrand
12:20 – 13:30	Lunch	Conference Suite 1B/1C
13:30 – 15:30	Poster session EVENS with Tea & Coffee from 15:00	Conference Suite 1B/1C
15:30 – 17:40	Session 5: Beyond the lab: Applying microbiome research in practice Session Chairs – Petra Louis and Simon Roques	Conference Suite 1A
15:30 – 16:15	IT 05: From Bench to Bedside: The journey of EnteroBiotix	Lynsey Howard
16:15 – 16:35	OT 19: Harnessing the gut microbiome to identify novel anaerobic bacteria with biotherapeutic potential	Indrani Mukhopadhyaya
16:35 – 16:55	OT 20: Harnessing diverse prophages of STEC O157:H7 phage-type 8 for rapid identification of fresh produce-associated STEC strains	Janet Nale
16:55 – 17:40	IT 06: Leveraging lactobacilli against respiratory viral diseases	Irina Spacova
17:40 – 18:00	End of conference and announcement of next conference and poster prize winner	
20:00 – 23:00	Conference Ceilidh - with Stovies (food) at 21:15 at the Beach Ballroom, Beach Promenade, Aberdeen, AB24 5NR (return coach transportation will be provided)	

Bus Timings: 19:00 from P&J Live / leaving at 19:20 from Broad Street, Aberdeen, AB11 5BU. **Return:** 23:15 bus returns to Broad Street and P&J Live. Please ensure you arrive 10 - 15 minutes prior to bus departure.