

Having IMPACTT 4: Advancing Microbiome Research Symposium Program

Malcolm Hotel, Canmore, AB, Canada June 3-5, 2024

Monday – June 3, 2024		
06:45 – 08:45 07:45 – 08:45	Breakfast (Stirling Grill, Glamis, Balmoral, & Inverness Rooms) Registration (Pre-Function Foyer)	
09:00 - 10:30	Opening Remarks & Keynote Talk Chair: Dr. Kathy McCoy (Edinburgh Castle Room)	
09:00 – 09:15	Welcome Address & Land Acknowledgement Dr. Kathy McCoy University of Calgary, Canada	
09:15 – 10:15	Priming for Life: The Microbiome as a Key Regulator of Brain & Behaviour Dr. John F. Cryan University College Cork, Ireland	
10:15 – 11:00	AM Break (Pre-Function Foyer)	
11:00 – 12:30	Session 1: Microbiome in Early Life Chair: Dr. Anita Kozyrskyj (Edinburgh Castle Room)	
Plenary Talks		
11:00 – 11:30	Early life origins of autoimmunity: genes, microbes and immunity in type 1 diabetes Dr. Jayne Danska The Hospital for Sick Children, Canada	
11:30 – 12:00	Maternal microbiota and neonatal skin barrier Dr. Mercedes Gomez de Agüero / University of Würzburg, Germany	
Short Talks Selected from Abstracts		
12:00 – 12:15	Exposome attrition leads to transgenerational alterations in adaptive immune landscape Meggie Kuypers University of Toronto, Canada	
12:15 – 12:30	Effect of the early-life premature microbiome on growth and neurodevelopment in mice in response to stress Dr. Van Ortega <i>University of Calgary, Canada</i>	
12:30 - 14:00	Lunch Break (Stirling Grill, Glamis, Balmoral, & Inverness Rooms)	



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14:00 – 15:30	Session 2: Innovative Approaches for Elucidating Microbiome Function Chair: Dr. Karen Madsen (Edinburgh Castle Room)
Plenary Talks	
14:00 – 14:30	Imaging the immune response and impact of the microbiome Dr. Paul Kubes University of Calgary, Canada
14:30 – 15:00	Antigen-level resolution of commensal-specific B cell responses Dr. Oliver Harrison Benaroya Research Institute, USA
Short Talks Selected from Abstracts	
15:00 – 15:15	A genetic system for Akkermansia muciniphila reveals a role for mucin foraging in gut colonization Dr. Lauren Davey University of Victoria, Canada
15:15 – 15:30	Unraveling the functionality of microbiomes with novel computational and single-cell profiling approaches Dr. Vanessa Dumeaux Western University, Canada
15:30 – 16:00	PM Break (Pre-Function Foyer)
40.00 40.00	Flash Talks & Poster Session

16:00 – 18:00	Flash Talks & Poster Session Chair: Dr. Braedon McDonald (Edinburgh Castle Room)	
Flash Talks Selected from Abstracts		
	Shirin Afroj University of Calgary, Canada	
	Dr. Jacqueline Barnett University of British Columbia Okanagan, Canada	
40.00 40.00	Dr. Francisco Daniel Davila Aleman University of Calgary, Canada	
16:00 – 16:30	Hans Ghezzi University of British Columbia, Canada	
	Connor Gianetto-Hill University of Guelph, Canada	
	Dr. Rebecca Jeffery University of Oxford, UK	
16:30 – 18:00	Poster Session	
	(Pre-Function Foyer, Holyrood & Edinburgh Castle Rooms)	



Tuesday – June 4, 2024

06:45 – 08:45 07:45 – 08:45	Breakfast (Stirling Grill, Glamis, Balmoral, & Inverness Rooms) Registration (Pre-Function Foyer)
09:00 - 10:30	Session 3: Harnessing the Microbiome Chair: Dr. Joe Harrison (Edinburgh Castle Room)
Plenary Talks	
09:00 - 09:30	Tissue-protective roles of the microbiota during infection and inflammation Dr. Irah King <i>McGill University, Canada</i>
09:30 - 10:00	Cultivating Complexity: Harnessing Microbial Culture for Model Ecosystems Dr. Emma Allen-Vercoe University of Guelph, Canada
Short Talks Selec	ted from Abstracts
10:00 – 10:15	Ecology of the human microbiome: how diversity in the microbiome protects against pathogens Dr. Erik Bakkeren <i>University of Oxford, UK</i>
10:15 – 10:30	With a little help from our [tiny] friends: modifying gut bacteria to detect malabsorption Juan Camilo Burckhardt University of British Columbia, Canada
10:30 – 11:00	AM Break (Pre-Function Foyer)
10:30 - 11:00 11:00 - 12:30	Special Topic: Microbiome Sequencing & Computational Development
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11:00 – 12:30	Special Topic: Microbiome Sequencing & Computational Development Chair: Dr. Morgan Langille (Edinburgh Castle Room) Integrating Oxford Nanopore and NextFlow for real-time bacterial sequence analysis
11:00 – 12:30 Plenary Talk	Special Topic: Microbiome Sequencing & Computational Development Chair: Dr. Morgan Langille (Edinburgh Castle Room) Integrating Oxford Nanopore and NextFlow for real-time bacterial sequence
11:00 – 12:30 <i>Plenary Talk</i> 11:00 – 11:20	Special Topic: Microbiome Sequencing & Computational Development Chair: Dr. Morgan Langille (Edinburgh Castle Room) Integrating Oxford Nanopore and NextFlow for real-time bacterial sequence analysis
11:00 – 12:30 <i>Plenary Talk</i> 11:00 – 11:20 <i>Short Talks</i>	Special Topic: Microbiome Sequencing & Computational Development Chair: Dr. Morgan Langille (Edinburgh Castle Room) Integrating Oxford Nanopore and NextFlow for real-time bacterial sequence analysis Dr. William Hsiao Simon Fraser University, Canada Reducing false-positive taxa in metagenomes by coverage validation of reference genomes
11:00 – 12:30 <i>Plenary Talk</i> 11:00 – 11:20 <i>Short Talks</i> 11:20 – 11:40	Special Topic: Microbiome Sequencing & Computational Development Chair: Dr. Morgan Langille (Edinburgh Castle Room) Integrating Oxford Nanopore and NextFlow for real-time bacterial sequence analysis Dr. William Hsiao Simon Fraser University, Canada Reducing false-positive taxa in metagenomes by coverage validation of reference genomes Dr. Robyn Wright Dalhousie University, Canada Challenges and opportunities with integrating microbiome data with other metadata Geoff Winsor Simon Fraser University, Canada



14:00 – 15:30	Session 4: Microbiome, Metabolites & Disease Chair: Dr. William Hsiao (Edinburgh Castle Room)
Plenary Talks	
14:00 – 14:30	Bacterial bioenergetics shape metabolite production in the gut Dr. Sam Light University of Chicago, USA
14:30 – 15:00	The role of the gut environment in shaping the intestinal microbiota and disease outcomes Dr. Carolina Tropini University of British Columbia, Canada
Short Talks Selected from Abstracts	
15:00 – 15:15	Are microbiome extracellular vesicles the missing connection to the gut- brain axis? Dr. Riadh Hammami University of Ottawa, Canada
15:15 – 15:30	Effects of lyophilized fecal filtrate compared to lyophilized donor stool in the treatment of recurrent <i>Clostridioides difficile</i> infection: a multi-center randomized trial Dr. Dina Kao <i>University of Alberta, Canada</i>

15:30 – 16:00 **PM Break (Pre-Function Foyer)**

16:00 – 18:00 Flash Talks & Poster Session

Chair: Dr. Braedon McDonald (Edinburgh Castle Room)

Flash Talks Selected from Abstracts

 Jessica Josephson | University of British Columbia Okanagan, Canada Simarpreet Kaur | University of Calgary, Canada
Dr. Maryam Kebbe | University of New Brunswick, Canada Kathryn Strayer | University of Calgary, Canada

- Athalia Voisin | University of Manitoba, Canada Christopher Yau | University of Toronto, Canada
- 16:30 18:00 Poster Session (Pre-Function Foyer, Holyrood & Edinburgh Castle Rooms)



Wednesday – June 5, 2024

06:45 - 08:45Breakfast (Stirling Grill, Glamis, Balmoral, & Inverness Rooms)07:45 - 08:45Registration (Pre-Function Foyer)

09:00 - 10:30	Session 5: Microbiome Regulation in Cancer & Cancer Therapy Chair: Dr. Marie-Claire Arrieta (Edinburgh Castle Room)	
Plenary Talks		
09:00 – 09:30	Understanding microbiota regulation of the tumor microenvironment and response to cancer therapy Dr. Romina Goldszmid National Institutes of Health, USA	
09:30 – 10:00	Microbiota-Centered Interventions in Onco-immunology Dr. Meriem Messaoudene <i>Université de Montréal, Canada</i>	
Short Talks Selected from Abstracts		
10:00 – 10:15	The role of intestinal microbiome in CD19 directed CAR-T cell therapy Dr. Larisa Kovtonyuk University of Calgary, Canada	
	Viral predation guilds of the human gut	

10:15 – 10:30 Dr. Ann Gregory | University of Calgary, Canada

10:30 – 11:00 AM Break (Pre-Function Foyer)

11:00 - 12:00	IMPACTT Mentee Talks Chair: Dr. Laura Sycuro (Edinburgh Castle Room)
11:00 – 11:15	Establishing a comprehensive logistics and sequencing framework for microbiome analysis in colorectal cancer patients in Newfoundland Dr. Akinola Alafiatayo Memorial University of Newfoundland, Canada
11:15 – 11:30	Long-lasting effects of commensal bacteria in innate immunity Dr. Aline Ignacio University of Calgary, Canada
11:30 – 11:45	Exploring dynamic microbial environments in UTI (Urinary Tract Infection) development Dr. Charlène Roussel Université Laval, Canada
11:45 – 12:00	Proteases from vaginal Prevotella species modulate endocervical barrier function Dr. Karen Lithgow University of Calgary, Canada
12:00 - 12:30	Closing Remarks & Awards
10:00 10:00	Closing Remarks & Awards

12:00 – 12:30 Dr. Kathy McCoy | University of Calgary, Canada



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