



Having IMPACTT 3: Advancing Microbiome Research Symposium Program

Malcolm Hotel, Canmore, AB, Canada
July 10-12, 2023

Monday – July 10, 2023

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

08:45 – 10:15 **Opening Remarks & Keynote Talk**
Chair: Dr. Kathy McCoy (Edinburgh Castle Room)

08:45 – 08:50 **Welcome Address**
Dr. Kathy McCoy | *University of Calgary, Canada*

08:50 – 09:15 **Opening Prayer and Teaching with Traditional Knowledge Keepers**
Ollie Benjamin & Virgle Stephens | *îyârhe Nakodabi*

09:15 – 10:15 **Wild mouse microbiota in preclinical models of inflammation and metabolism**
Dr. Barbara Rehermann | *National Institutes of Health, USA*

10:15 – 10:45 **AM Break (Pre-Function Foyer)**

10:45 – 12:15 **Session 1: Microbiome Beyond Bacteria**
Chair: Dr. Marie-Claire Arrieta (Edinburgh Castle Room)

Plenary Talks

10:45 – 11:15 **New dimensions of mycobiota involvement in health and disease**
Dr. Iliyan Iliev | *Cornell University, USA*

11:15 – 11:45 **Exploring the complexity of the human gut virome**
Dr. Alain Stintzi | *University of Ottawa, Canada*

Short Talks Selected from Abstracts

11:45 – 12:00 **Characterization of the archaeal community bound by immunoglobulins in colostrum and newborn feces**
Diana Rojas | *CINVESTAV, Mexico*

12:00 – 12:15 **Bacteria Mediated ALKi Chemoresistance in EML4-ALK fusion NSCLC**
Aviva Rotter-Maskowitz | *Weizmann Institute of Science, Israel*

12:15 – 13:45 **Lunch Break (Stirling Grill, Glamis, Balmoral, & Inverness Rooms)**



13:45 – 15:15

Session 2: Microbiome Beyond the Gut

Chairs: Dr. Fiona Brinkman + Dr. Will Hsiao (Edinburgh Castle Room)

Plenary Talks

13:45 – 14:15

The lung microbiome in suppurative disease: Not just hot air

Dr. Christina Thornton | *University of Calgary, Canada*

14:15 – 14:45

Translational Potential of the Human Skin Microbiome

Dr. Lindsay Kalan | *McMaster University, Canada*

14:45 – 15:15

Local and systemic roles of the microbiome in patients with cancer

Dr. Allyson Byrd | *Genentech*

15:15 – 15:45

PM Break (Pre-Function Foyer)

15:45 – 16:20

IMPACTT Mentee + Flash Talks

Chairs: Dr. Markus Geuking + Dr. Braedon McDonald (Edinburgh Castle Room)

IMPACTT Mentee Talks

15:45 – 16:00

Exploring the biotic properties of donor human milk and how it can improve child health

Dr. Merilee Brockway | *University of Calgary, Canada*

Flash Talks Selected from Abstracts

16:00 – 16:20

Monica Alvaro Fuss | *Dalhousie University, Canada*

Dale Archer | *University of Alberta, Canada*

Ben Fisher | *Dalhousie University, Canada*

Mackenzie Gutierrez | *University of Calgary, Canada*

Dr. Natasha Haskey | *University of British Columbia Okanagan, Canada*

Courtney Hoskinson | *University of British Columbia, Canada*

16:30 – 18:00

Poster Session 1 & Networking Social

(Pre-Function Foyer, Holyrood & Edinburgh Castle Rooms)



Tuesday – July 11, 2023

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

09:00 – 10:00 **Keynote Talk**
Chair: Dr. Jayne Danska (Edinburgh Castle Room)

09:00 – 10:00 **The functional evolution of newborn immune systems**
Dr. Petter Brodin | *Karolinska Institute, Sweden*

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

10:30 – 12:00 **Session 3: Microbiome Across Life Stages**
Chair: Dr. Anita Kozyrskyj (Edinburgh Castle Room)

Plenary Talks

10:30 – 11:00 **Who knew that clues to childhood asthma could be found in dirty diapers?**
Dr. Stuart Turvey | *University of British Columbia, Canada*

11:00 – 11:30 **Gut microbial metabolism and its influence on human physiology and health**
Dr. Sean Gibbons | *Institute for Systems Biology, USA*

Short Talks Selected from Abstracts

11:30 – 11:45 **The gut microbiome and early-life growth in a population with high prevalence of stunting**
Dr. Ameer Manges | *University of British Columbia, Canada*

11:45 – 12:00 **The influence of early-life gut microbiome disruption on HPA axis dysregulation and allergic asthma**
Dr. Van Ortega | *University of Calgary, Canada*

12:00 – 13:30 Lunch Break (Stirling Grill, Glamis, Balmoral, & Inverness Rooms)



13:30 – 15:00

Session 4: Microbiome & Nutrition

Chairs: Dr. Joe Harrison + Dr. Ian Lewis (Edinburgh Castle Room)

Plenary Talks

13:30 – 14:00

Restoration and precision modulation of the human gut microbiome through fiber-based dietary interventions

Dr. Jens Walter | *University College Cork, Ireland*

14:00 – 14:30

Dietary β -fructan fibres increase inflammatory responses, CNS demyelinating lesions and symptom peak in multiple sclerosis if not fermented by gut microbiota

Dr. Heather Armstrong | *University of Manitoba, Canada*

Short Talks Selected from Abstracts

14:30 – 14:45

Microbiota – iNKT cell interactions: a one-way street?

Dr. Thierry Mallevaey | *University of Toronto, Canada*

14:45 – 15:00

Effects of Maternal Dysbiosis on Type 1 Diabetes Incidence in Offspring

Erin Strachan | *University of Alberta, Canada*

15:00 – 15:30

PM Break (Pre-Function Foyer)

15:30 – 16:20

IMPACTT Mentee & Flash Talks

Chairs: Dr. Markus Geuking + Dr. Braedon McDonald (Edinburgh Castle Room)

IMPACTT Mentee Talks

15:30 – 15:45

Highlighting the power of metaproteomics through CAMPI3, a microbiome functional benchmarking study

Dr. Caitlin Simopoulos | *Roche Canada, Canada*

15:45 – 16:00

Bayesian dimension reduction in microbiome platforms

Dr. Kevin McGregor | *York University, Canada*

Flash Talks Selected from Abstracts

16:00 – 16:20

Eszter Pal | *McGill University, Canada*

Kenny Shin | *University of Ottawa, Canada*

Dr. Matthew Sorbara | *University of Guelph, Canada*

Gillian Tanabe | *University of Ottawa, Canada*

Dr. Carolyn Thomson | *University of Calgary, Canada*

Dr. Weilan Wang | *Baylor College of Medicine, USA*

16:30 – 18:00

Poster Session 2 & Networking Social

(Pre-Function Foyer, Holyrood & Edinburgh Castle Rooms)



Wednesday – July 12, 2023

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

09:00 – 10:30 Session 5: Omics & Bioinformatics

Chair: Dr. Laura Sycuro (Edinburgh Castle Room)

Plenary Talks

09:00 – 09:30 **Modeling gut microbial metabolism across scales**
Dr. Cecilia Noecker | *University of California San Francisco, USA*

09:30 – 10:00 **Leveraging big data, visual analytics and AI to empower microbiome research**
Dr. Jeff Xia | *McGill University, Canada*

Short Talks Selected from Abstracts

10:00 – 10:15 **Spatial Mapping of Mobile DNA Elements in Complex Microbiomes at Single Cell Resolution**
Ben Grodner | *Cornell University, USA*

10:15 – 10:30 **Chick-MaTron: in silico modelling of complex microbial communities in the poultry gut**
Dr. John Parkinson | *SickKids, Canada*

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

11:00 – 11:30 IMPACTT Updates

Chair: Dr. Paul Kubes (Edinburgh Castle Room)

11:00 – 11:30 IMPACTT Updates

11:30 – 12:00 Closing Remarks & Awards

11:30 – 12:00 **Closing Remarks & Awards**
Dr. Kathy McCoy | *University of Calgary, Canada*



Poster Session #1 – Monday, 10 July 2023	Poster Session #2 – Tuesday, 11 July 2023
Monica Alvaro Fuss (Poster 1)	Eszter Pal (Poster 45)
Dale Archer (Poster 2)	Kenny Shin (Poster 46)
Ben Fisher (Poster 3)	Dr. Matthew Sorbara (Poster 47)
Mackenzie Gutierrez (Poster 4)	Gillian Tanabe (Poster 48)
Dr. Natasha Haskey (Poster 5)	Dr. Carolyn Thomson (Poster 49)
Courtney Hoskinson (Poster 6)	Dr. Weilan Wang (Poster 50)
Spencer Abbott (Poster 7)	Dr. Larisa Kovtonyuk (Poster 51)
Dr. Sima Afsharnezhad (Poster 8)	Samuel Lawal (Poster 52)
Dr. Shokouh Ahmadi (Poster 9)	Dr. Karen Lithgow (Poster 53)
Nazanin Arjomand-Fard (Poster 10)	Dana Lowry (Poster 54)
TBD (Poster 11)	Yao Lu (Poster 55)
Jérémie Auger (Poster 12)	Madeline Mellet (Poster 56)
Abimbola Badejo (Poster 13)	Emily Mercer (Poster 57)
Sahar Bagheri (Poster 14)	Dr. Selene Meza-Perez (Poster 58)
Delaney Barth (Poster 15)	Dr. Chunlong Mu (Poster 59)
Dr. Evandro Beraldi (Poster 16)	Kevin Muirhead (Poster 60)
Dr. Dominique Bihan (Poster 17)	Hana Olof (Poster 61)
Dr. Kirsty Brown (Poster 18)	Dr. Mona Parizadeh (Poster 62)
Dr. Larissa Celiberto (Poster 19)	Dr. John Parkinson (Poster 63)
Catherine Chan (Poster 20)	Dr. Sarah Piché-Choquette (Poster 64)
Diana Changirwa (Poster 21)	Erika Prando Munhoz (Poster 65)
Leah D'Aloisio (Poster 22)	Dr. Charlene Roussel (Poster 66)
Darlene Dai (Poster 23)	Mahana Sabachvili (Poster 67)
Dr. Marcela Davoli-Ferreira (Poster 24)	Maricarmen Salas-López (Poster 68)
Dr. Vanessa DeClercq (Poster 25)	Jared Schlechte (Poster 69)
Dr. Dhvani Desai (Poster 26)	Shrushti Shah (Poster 70)
Pedro Dimitriu (Poster 27)	Shrushti Shah (Poster 71)
Liz-Audrey Djomnang (Poster 28)	Sara Shama (Poster 72)
Peter Dobranowski (Poster 29)	Dr. Saif Sikdar (Poster 73)
Breenna Dobson (Poster 30)	Isla Skalosky (Poster 74)
Toluwatise Ehindero (Poster 31)	Sara Stickley (Poster 75)
Dr. Han Fang (Poster 32)	Dr. Lena Takayasu (Poster 76)
Zhi Yi Fang (Poster 33)	Dr. Marcel van de Wouw (Poster 77)
Bradley Fitzgerald (Poster 34)	Erik van Tilburg Bernardes (Poster 78)
Dr. Fabien Franco (Poster 35)	Dr. Jennifer Vena (Poster 79)
Dr. Thaís Glatthardt (Poster 36)	Sasanka Weerasingha (Poster 80)
Dr. Simon Hirota (Poster 37)	Logan Wistead (Poster 81)
Dr. Aline Ignacio (Poster 38)	Anthony Wong (Poster 82)
Maira Jimenez-Sanchez (Poster 39)	Dr. Robyn Wright (Poster 83)
Harbinder Kaur (Poster 40)	Wendy Zhang (Poster 84)
Wasif Khan (Poster 41)	
Dr. Yeganeh Khaniani (Poster 42)	
Reihane Khorasaniha (Poster 43)	
Pardis Kiani (Poster 44)	



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