



# 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 & 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 Keeper**  
Stoney Nakoda Elder | *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**  
Chairs: Dr. Marie-Claire Arrieta + Dr. Karen Madsen (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 **Plenary Talk Title TBD**  
Dr. Alain Stintzi | *University of Ottawa, Canada*

#### *Short Talks Selected from Abstracts*

11:45 – 12:00 **Short Talk #1**

12:00 – 12:15 **Short Talk #2**



12:15 – 13:45 Lunch Break (Stirling Grill, Glamis & 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 Talks + 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

**Flash Talks**

Select 4-5 from abstracts that present on Day 1

16:30 – 18:00 Poster Session 1 (Pre-Function Foyer, Holyrood & Edinburgh Castle Rooms)



## Tuesday – July 11, 2023

06:45 – 08:45 Breakfast (Stirling Grill, Glamis & 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**  
Chairs: Dr. Anita Kozyrskyj + Dr. Philippe Gros (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 **Short Talk #3**

11:45 – 12:00 **Short Talk #4**

12:00 – 13:30 Lunch Break (Stirling Grill, Glamis & 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

#### **Diet-induced dysbiosis of the maternal gut microbiome impairs neurodevelopmental outcomes in descendant generations**

Dr. Shelly Buffington | *Baylor College of Medicine, USA*

#### *Short Talks Selected from Abstracts*

14:30 – 14:45

#### **Short Talk #5**

14:45 – 15:00

#### **Short Talk #6**

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

**15:30 – 16:20**

### **IMPACTT Mentee Talks & Flash Talks**

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

#### *IMPACTT Mentee Talk*

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

#### **Flash Talks**

Select 4-5 from abstracts that present on Day 2

**16:30 – 18:00** **Poster Session 2 (Pre-Function Foyer, Holyrood & Edinburgh Castle Rooms)**



## Wednesday – July 12, 2023

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

**09:00 – 10:30** **Session 5: Omics & Bioinformatics**  
Chairs: Dr. Celia Greenwood + 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 **Short Talk #7**

10:15 – 10:30 **Short Talk #8**

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

**11:00 – 11:30** **IMPACTT Updates**  
Chair: Dr. Paul Kubes (Edinburgh Castle Room)

11:00 – 11:15 **IMPACTT Update #1**

11:15 – 11:30 **IMPACTT Update #2**

**11:30 – 12:00** **Closing Remarks & Awards**

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Dr. Kathy McCoy | *University of Calgary, Canada*