

# BCID 2025 Program

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## Wednesday | May 21

4:00 PM - 6:00 PM	Check-in and Badge Collection (Front Desk-Professional Development Building)
	(On your own for dinner)
4:00 PM - 5:30 PM	<b>"Trainee Social Events"</b> <b>Hike to Surprise Corner &amp; Bow Falls Viewpoint</b> Meet outside the Professional Development Center This will be an easy hike (relatively flat, well-marked trails), but participants should come prepared for the weather and to be walking for at least 1 hour
	<b>Session 1 - New Horizons</b> <b>Chair: Jon Dennis</b>   University of Alberta
6:10 PM - 6:25 PM	<b>Opening Remarks</b>   Tracy Raivio and Alexei Savchenko
6:25 PM - 7:15 PM	<b>Dr. Don Woods Lecture: John Whitney</b>   McMaster University <i>A widespread family of broad-spectrum protein antibiotics</i>
7:15 PM - 7:20 PM	Questions
7:20 PM - 7:50 PM	<b>Karen Maxwell</b>   University of Toronto <i>Exploring the anti-phage defence system network in Vibrio species</i>
7:50 PM - 7:55 PM	Questions
7:55 PM - 8:25 PM	<b>Brent Weber</b>   University of Alberta <i>Antibacterial drug discovery using physiologically-relevant growth conditions</i>
8:25 PM - 8:30 PM	Questions
8:30 PM - 10:00 PM	Opening reception and Meet the Speaker - KC301

## Thursday | May 22

7:00 AM - 8:20 AM	Breakfast   Sally Borden Building
	<b>Session 2 - Host Pathogen Interface</b> <b>Chairs: Amit Bhavsar</b>   University of Alberta and <b>Alexei Savchenko</b>   University of Calgary
8:30 AM - 9:00 AM	<b>Tamara O'Connor</b>   Johns Hopkins University, US <i>Lipid resources: Friend versus foe to pathogens and their hosts</i>
9:00 AM - 9:10 AM	Questions
9:10 AM - 9:40 AM	<b>Karla Satchell</b>   Northwestern University <i>Vibrio MARTX toxins host cell surface interactions</i>

9:40 AM - 9:50 AM	Questions
9:50 AM - 10:10 AM	COFFEE BREAK
10:10 AM - 10:40 AM	<b>Caroline Cameron</b>   University of Victoria <i>Investigating the Pathogen-Host Interface During Infection with the Syphilis-Causing Spirochete, Treponema pallidum</i>
10:40 AM - 10:50 AM	Questions
10:50 AM - 11:20 AM	<b>Joanne Lemieux</b>   University of Alberta <i>Mechanistic insight into the regulation of virulence factors in pathogenic E. coli by rhomboid protease GlpG</i>
11:20 AM - 11:30 AM	Questions
11:30 AM - 11:45 AM	Trainee talk - <b>Malcolm Forster</b>   University of Alberta Salmonella SspH2 mimics inflammasome signal one to induce IL-1 $\beta$ production in macrophages
11:45 AM - 11:50 AM	Questions
12:00 PM - 1:15 PM	<b>Lunch</b>   Sally Borden Building)
1:15 PM - 2:45 PM	Poster session 1
2:45 PM - 7:00 PM	<i>On your own for dinner</i>
4:00 PM - 6:00 PM	<b>"Trainee Social Events"</b>  <b>Trivia &amp; Pub Social</b> This will be hosted at the St James Gate Old Irish Pub (appetizers provided!)
	<b>Session 3 - Vector Borne Infections</b> <b>Chairs:</b> <b>George Chaconas</b>   University of Calgary and <b>Nathan Peters</b>   University of Calgary
7:00 PM - 7:30 PM	<b>Dr. Lucas Tirloni</b>   National Institute of Allergy and Infectious Diseases <i>Studying Tick Feeding Biology to Better Understand Ticks and the Transmission of Tick-Borne Pathogens</i>
7:30 PM - 7:35 PM	Questions
7:35 PM - 8:05 PM	<b>Melissa Caimano</b>   University of Connecticut, US <i>Tick-Tok: How Lyme disease spirochetes time differential gene expression according to tick feeding.</i>
8:05 PM - 8:10 PM	Questions
8:10 PM - 8:30 PM	COFFEE BREAK (20 minutes)
8:30 PM - 9:00 PM	<b>Matthew Rogers</b>   London School of Hygiene & Tropical Medicine, UK <i>Do Leishmania make a biofilm to aid their transmission?</i>
9:00 PM - 9:05 PM	Questions
9:05 PM - 9:20 PM	Trainee Talk - <b>Daiana Alvarez-Olmedo</b>   University of Calgary Discovery of Novel Borrelia burgdorferi Adhesins That Facilitate Binding to Activated Endothelium
9:20 PM - 9:25 PM	Questions
After Hours	Meet the Speaker - MacLab Bistro   Kinnear Centre

## Friday | May 23

7:00 AM - 8:20 AM	Breakfast
	<b>Session 4 - Antimicrobial drug resistance</b> <b>Chairs:</b> <b>Diego Nobrega</b>   University of Calgary and <b>Brent Weber</b>   University of Alberta
8:30 AM - 9:00 AM	<b>Herman Barkema</b>   University of Calgary <i>Tackling antimicrobial resistance (AMR) in humans and animals: One Health approach for fighting AMR</i>
9:00 AM - 9:10 AM.	Questions
9:10 AM - 9:40 AM	<b>David Heinrichs</b>   University of Western Ontario <i>Investigations into new molecules to control MRSA</i>
9:40 AM - 9:50 AM	Questions
9:50 AM - 10:10 AM	COFFEE BREAK
10:10 AM - 10:40 AM	<b>Tanis Dingle</b>   University of Calgary <i>From Bad to Worse: The Last Decade of Carbapenemase-Producing Enterobacteriales in Alberta</i>

10:40 AM - 10:50 AM	Questions
10:50 AM - 11:20 AM	<b>Omar El-Halfawy</b>   University of Regina <i>Unlocking new antimicrobial strategies by studying virulence and antibiotic resistance under host-relevant conditions</i>
11:20 AM - 11:30 AM	Questions
11:30 AM - 11:45 AM	Trainee Talk - <b>Manoj Jangra</b>   McMaster University Discovery of a New Antibiotic, Lariocidin: A Knotty Solution to Antibiotic Resistance
11:45 AM - 11:50 AM	Questions
<b>12:00 PM - 1:15 PM</b>	Lunch   Sally Borden Building
1:15 PM - 2:45 PM	Poster session II
2:45 PM - 7:00 PM	<i>On your own for dinner</i> <b>Consider Activity:</b> <a href="https://www.banffadventures.com/things-to-do/big-canoe-tours/">https://www.banffadventures.com/things-to-do/big-canoe-tours/</a>
	<b>Session 5 - Respiratory Infectious Diseases</b> <b>Chairs:</b> <b>Christina Thornton</b>   University of Calgary and <b>Nargis Khan</b>   University of Calgary
7:00 PM - 7:30 PM	<b>Stephen Barr</b>   Western University <i>Establishing a Hypertensive Hamster Model for Clinically Relevant COVID-19 Research and Beyond</i>
7:30 PM - 7:35 PM	Questions
7:35 PM - 8:05 PM	<b>Jim Sun</b>   University of British Columbia <i>Novel targets for tuberculosis host-directed therapy</i>
8:05 PM - 8:10 PM	Questions
8:10 PM - 8:30 PM	COFFEE BREAK
8:30 PM - 9:00 PM	<b>Ann C. Gregory</b>   University of Calgary <i>Breathing Life into Viromics: Understanding Viral Communities in the Human Lung.</i>
9:00 PM - 9:05 PM	Questions
9:05 PM - 9:20 PM	Trainee Talk - <b>Alex Ensminger</b>   University of Toronto The discovery of a Legionella phage explains a key determinant of human disease
9:40 PM - 9:45 PM	Questions
After Hours:	Meet the Speaker - Maclab Bistro   Kinnear Centre

## Saturday | May 24

7:00 AM - 8:20 AM	Breakfast   Sally Borden Building
	<b>Session 6 - Microbiome in infection and health</b> <b>Chairs:</b> <b>Ben Willing, Wael Elhenawy</b>   University of Alberta and <b>Laura Sycuro</b>   University of Calgary
8:30 AM - 9:00 AM	<b>Matthew Sorbara</b>   University of Guelph <i>Harnessing genomic diversity in Lachnospiraceae to restore colonization resistance</i>
9:00 AM - 9:10 AM	Questions
9:10 AM - 9:40 AM	<b>Wael Elhenawy</b>   University of Alberta <i>A Crohn's Disease-Associated <i>Escherichia coli</i> Strain Assembles Biofilms Using a Hybrid Type IV Secretion System</i>
9:40 AM - 9:50 AM	Questions
9:50 AM - 10:10 AM	COFFEE BREAK (20 minutes)
10:10 AM - 10:40 AM	<b>Elena Verdu</b>   McMaster University <i>Microbial Pathogenesis in Celiac Disease</i>
10:40 AM - 10:50 AM	Questions
10:50 AM - 11:20 AM	<b>Trevor Alexander</b>   AAFC Lethbridge <i>The role of the bovine respiratory microbiota in health and disease</i>

11:20 AM - 11:30 AM	Questions
11:30 AM - 11:45 AM	Trainee talk - <b>Kat Pick</b>   University of Alberta One size does not fit all: examining molecular mechanisms of prophage induction in the gastrointestinal environment
11:45 AM - 11:50 AM	Questions
12:00 PM - 1:30 PM	Lunch
	<b>Session 7 - Infectious diseases, bench-to-bedside</b> <b>Chair: Trainee led session</b>
1:30 PM - 2:00 PM	<b>Kevin Kain</b>   UHN <i>Transforming Fever Management: new tools to save lives and money</i>
2:00 PM - 2:05 PM	Questions
2:05 PM - 2:35 PM	<b>Dylan Pillai</b>   University of Calgary <i>Improving access to precision infection diagnostics and outcomes</i>
2:35 PM - 2:40 PM	Questions
2:40 PM - 3:00 PM	COFFEE BREAK
3:00 PM - 3:30 PM	<b>Simon Otto</b>   University of Alberta <i>AMR and One Health</i>
3:30 PM - 3:35 PM	Questions
3:35 PM - 3:55 PM	<b>Sameeh M. Salama</b>   Fedora Pharm <i>Antibiotic Drug Discovery: State of the Industry</i>
3:55 PM - 4:00 PM	Questions
4:00 PM - 4:15 PM	Trainee Talk - <b>Nik Ewasechko</b>   University of Calgary Establishing a pipeline for recombinant outer membrane protein production and purification to be screened as antigens for human monoclonal antibody selection
4:15 PM - 4:30 PM	Trainee Talk - <b>Barbara Waddell</b>   University of Calgary Wastewater-Based Surveillance (WBS) of a multi-drug resistant Shigella sonnei outbreak affecting unhoused individuals across Calgary, Alberta
4:30 PM - 5:00 PM	(on your own)
	<b>William Paranchych Lecture: Lori Burrows</b> <b>Introduction - Chair: Joe Harrison</b>
5:00 PM - 5:50 PM	<b>Dr. Lori Burrows</b>   McMaster University <i>Scouting - a new mode of Pseudomonas aeruginosa motility</i>
5:50 PM - 6:00 PM	Questions
6:00 PM - 6:30 PM	Networking   KCCI 1 <sup>st</sup> floor Patio, Cash Bar
6:30 PM - 9:00 PM	<b>Closing Banquet</b> - Trainee Talk and Poster Prizes (Rm 101 Kinnear Centre)

## Sunday | May 25

7:00 AM - 9:30 AM	Breakfast   Sally Borden Building
11:00 AM	Checkout





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# Start something.

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CANADA

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The University of Calgary, located in the heart of Southern Alberta, both acknowledges and pays tribute to the traditional territories of the peoples of Treaty 7, which include the Blackfoot Confederacy (comprised of the Siksika, the Piikani, and the Kainai First Nations), the Tsuut'ina First Nation, and the Stoney Nakoda (including Chiniki, Bears paw, and Goodstoney First Nations). The City of Calgary is also home to the Métis Nation of Alberta (Districts 5 and 6).

The University of Calgary is situated on land Northwest of where the Bow River meets the Elbow River, a site traditionally known as Moh'kins'tsis to the Blackfoot, Wichispa to the Stoney Nakoda, and Guts'ists'i to the Tsuut'ina. On this land and in this place we strive to learn together, walk together, and grow together "in a good way."