

Registration: Max Bell Foyer
 Breakfast & Lunch: Vistas Dining room
 Opening & Closing Dinner: KC101 – 103

All sessions: Max Bell Auditorium
 Poster Sessions: Max Bell 251, 252, 253, & ETCBR
 Young Scientist Meeting: KC301

September 19

Time			
13:30 – 16:30	Young Scientist Meeting		
17:00 – 18:30	Welcome Dinner		
19:00 – 20:00	Keynote Address	Dr. Aimee Shen	Of Spores and Cells: Insights into the Evolution of Cell Division Mechanisms of <i>Clostridioides difficile</i>

September 20

Session I: Microbe-Microbe Interactions 9 (Anna Seekatz / Jacqueline Phan)		
Time	Speaker	Title
9:00 – 9:30	Dr. Joe Zackular	Mechanisms of interaction between <i>Clostridioides difficile</i> and enterococci
9:30 – 9:45	Samantha Kisthardt	Stickland amino acid availability alters the expression of the bile acid inducible (<i>bai</i>) operon in commensal Clostridia
9:45 – 10:00	Dr. Nian Liu	Clostridium septicum and C. difficile compete for an intestinal lipid-rich environment lacking in naturally evolved antimicrobial activity
10:00 – 10:15	Rebbekah Munday	How Cryo-EM structures of a whole contractile phage can begin to demonstrate mechanisms of phage infection
10:15 – 10:30	Break	

Session II: One Health (Horst Posthaus / Annie Doyle)		
Time	Speaker	Title
10:30 – 11:00	Dr. Luis Arroyo Castro	Clostridial diseases of large animal species: old and new
11:00 – 11:15	Dr. Francisco Uzal	Experimental acute Clostridium perfringens type D enterotoxemia in sheep is not characterized by specific renal lesions
11:15 – 11:30	Dr. Stuart Johnson	Enteritis Necroticans due to Clostridium perfringens type C; Epidemiological and pathological findings over the past 20 years
11:30 – 11:45	Natasza Hain-Saunders	Clostridioides difficile in feral horse populations in Australia
11:45 – 13:30	Lunch	

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Session III: -Omics (Wiep Klaas Smits / Samantha Kisthardt)		
Time	Speaker	Title
13:30 – 14:00	Dr. Olga Soutourina	RNomics during <i>C. difficile</i> infection cycle: from identification to function
14:00 – 14:15	Manuela Fuchs	Hfq RIL-seq in <i>C. difficile</i> reveals sRNA-mediated regulation of sporulation
14:15 – 14:30	Jessical Buddle	Rapid evolution under vancomycin selection reveals multiple pathways to resistance in <i>Clostridioides difficile</i>
14:30 – 14:45	Dr. Nick Markham	A single-cell resolution, multi-omic spatial atlas of colonic tumorigenesis driven by <i>C. difficile</i> from human colorectal cancer-associated biofilms
14:45 – 15:00	Break	

Session IV: Treatments / Healthcare (Michael Abt / Ajisha Alwin)		
Time	Speaker	Title
15:00 – 15:30	Dr. Larry Kocielek	Recent developments in the treatment and prevention of <i>C. difficile</i> infection
15:30 – 15:45	Anna DeVeaux	Functional microbiome variation influences <i>Clostridioides difficile</i> infection susceptibility
15:45 – 16:00	Dr. Wiep Klaas Smits	Clostridioides difficile PCR ribotype 151 is polyphyletic and includes pathogenic isolates from cryptic clade C-II with mono-toxin pathogenicity loci that can escape routine diagnostics
16:00 – 16:15	Dr. Mayland Chang	A dual-action antibiotic that kills <i>Clostridioides difficile</i> vegetative cells and inhibits spore germination
16:15 – 16:30	Break	

Session V: Physiology (Rita Tamayo / Katherine Wozniak)		
Time	Speaker	Title
16:30 – 17:00	Dr. Erin Purcell	Alarmone Signaling in <i>C. difficile</i>: Newly discovered variations on a conserved pathway
17:00 – 17:15	Dr. Lynn Bry	HRMAS 13C NMR and genome-scale metabolic modeling identify threonine as a preferred dual redox substrate for <i>Clostridioides difficile</i>
17:15 – 17:30	Dr. Hualiang Pi	Iron Storage Organelles Facilitate <i>Clostridioides difficile</i> Survival in the Gut
17:30 – 17:45	Dr. Jihong Li	Contact of <i>Clostridium perfringens</i> type A strain ATCC3624 with C2C12 muscle cells increases toxin production to enhance ATCC3624 growth in a process involving the EutV/W two component system
18:15 – 19:30	Poster Session I & Reception	
19:30 –	Dinner on your own	

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Session VI: Microbiome (Vincent Young / Anna DeVeaux)		
Time	Speaker	Title
8:30 – 9:00	Dr. Casey Theriot	Reengineering of the gut bile acid landscape to restrict <i>C. difficile</i>
9:00 – 9:30	Dr. Thomas Louie	A solid movement with RBX2660. Safely restoring gut microbiota from donor to patient
9:30 – 9:45	Dr. James Collins	Control of <i>C. difficile</i> Toxins and Repair of the Gut Endothelium by a Microbial Metabolite
9:45 – 10:00	Break	

Session VII: Dr. Tohru Shimizu Memorial Lecture (Joe Sorg)		
Time	Speaker	Title
10:00 – 10:45	Dr. Bruce McClane	With a Little Help from My Friends: <i>Clostridium perfringens</i> Quorum Sensing

Session VIII: Toxins (Borden Lacy / John Manion)		
Time	Speaker	Title
10:45 – 11:15	Dr. Dena Lyras	Non-antibiotic strategies to mitigate <i>C. difficile</i> infection: insights from discovery research
11:15 – 11:30	Dr. Andreas Rummel	Presynaptic targeting of botulinum neurotoxin type A requires a tripartite PSG-Syt1-SV2 plasma membrane nanocluster for synaptic vesicle
11:30 – 11:45	Dr. Stephen Melville	Holin-dependent secretion of the large clostridial toxin TpeL by <i>Clostridium perfringens</i>
11:45 – 13:15	Lunch	
12:45 -	Planned Activities / Free time / Dinner on your own Planned Excursion Pickup location: Banff Centre - PDC Building (Home for Arts and Creativity) Pickup time: 12:45pm Tour start time: 1:00pm Drop off time: 5:30pm	

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Session IX: Spores (Aimee Shen / Morgan Osborne)		
Time	Speaker	Title
8:30 – 9:00	Dr. Marjorie Pizarro-Guajardo	Understanding surface variability in <i>Clostridioides difficile</i> spores and implications in disease.
9:00 – 9:15	Dr. Hannah Fisher	Spore Ultrastructure and Germination in <i>Clostridium sporogenes</i>
9:15 – 9:30	Dr. Paula Salgado	C. difficile engulfasome at the molecular level
9:30 – 9:45	Morgan McNellis	Pseudoprotease-mediated regulation of germinant sensing in <i>Clostridioides difficile</i>
9:45 – 10:00	Break	

Session X: Gene Regulation (Erin Purcell / Merilyn Beebe)		
Time	Speaker	Title
10:00 – 10:30	Dr. Craig Ellermeier	Identification of a Two-Component Signal Transduction System That Responds to Lipid II-Interacting Antibiotics
10:30 – 10:45	Dr. Iman Mehdizadeh Gohari	Identification of orphan histidine kinases that impact sporulation and enterotoxin production by <i>Clostridium perfringens</i> type F strain SM101 in a pathophysiologically-relevant ex vivo mouse intestinal contents model
10:45 – 11:00	Léo Caulat	The armada of oxidative stress detoxication enzymes of <i>C. difficile</i>
11:00 – 11:15	Dr. Adrienne Edwards	The RgaSR two-component system promotes <i>Clostridioides difficile</i> sporulation through a small regulatory RNA and the AgrD1 autoinducing peptide
11:30 – 13:00	Lunch	
13:00 – 14:30	Poster Session II	

Session XI: Virulence Factors (Young Scientist Session) (Bruce McClane / Cyril Anjou)		
Time	Speaker	Title
14:30 – 14:45	Matthew Munneke	Clostridioides difficile nucleobase scavenging in the competitive gut environment
14:45 – 15:00	Dr. Jacqueline Phan	Of Mice and Women: The Effect of the Estrous Cycle on <i>Clostridioides difficile</i> Infection Outcomes
15:00 – 15:15	Dr. Sean Miletic	Structural characterization of bile acid inhibition of <i>Clostridioides difficile</i> Toxin B

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15:15 – 15:30	D. Annie Doyle	C. difficile TcdB-receptor tropism and binding interactions are driven by extracellular calcium
15:30 – 15:45	Clara Bate	Understanding the role of a key sporulation specific protein in beta-lactam resistance in <i>Clostridioides difficile</i>
15:45 – 16:00	Break	

Session XII: Host Response to Infection (Jimmy Ballard / Chris Peritore-Galve)		
Time	Speaker	Title
16:00 – 16:30	Dr. Michael Abt	Mechanisms of immune modulation to support microbiome-based therapeutics
16:30 – 16:45	Kaylee Norman	Clostridioides difficile Toxin B subverts B cell migration, germinal center formation and antibody class switching following vaccination
16:45 – 17:00	Alex Huber	Transcriptional landscape of Clostridioides difficile infection-induced neutrophilia
17:00 – 17:15	Ashleigh Rogers	Clostridioides difficile infection disrupts host colonic repair
19:00 –	Congress Dinner	