

IIDR Trainee Day 2021

November 10

10:00-10:05 am · Opening Remarks

10:05-11:05 am · Dr. Jim Collins (Keynote speaker)

11:05-11:25 am · Coffee break

11:25-11:45 am · Gerard Wright post doc award

11:45-12:05 pm · Mildred Gulliver post doctoral award

12:05-12:15 pm · Coffee break

12:15-12:45 pm · Student session with Dr. Collins

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Award Winners

11:25-11:45 am . Gerard Wright post doc award

Full Name

Xuefei Chen
(Wright Lab)

Talk Title

Discovery of butyrolactol A as A potentiator of caspofungin against refractory fungal infections through A high-throughput synthetic lethal screening, relieving the inherent resistance to caspofungin in Cryptococcus by A novel antifungal mechanism of flippases.

11:45-12:05 pm . Mildred Gulliver post doctoral award

Full Name

Candice Quin
(Bowdish Lab)

Talk Title

Deficiency in Tet2 contributes to TNF hyper-responsiveness through aberrant myelopoiesis

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November 11

10:00-11:20 am · Michael Kamin Hart Memorial Scholarship
Presentations

11:20-11:35 am · Coffee break

11:35-12:00 pm · Michael Kiley Graduate Student Award
Presentation

12:00-1:15 pm. · Poster Q&A

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Award Winners

10:00-11:20 am · Michael Kamin Hart Memorial Scholarship Presentations

Staff

Maya Farha
(Brown Lab)

Students

Undergraduate

Full Name
Emily Panousis
(McArthur Lab)

Title

Tracking down SARS-CoV-2 in our Community: A story of genomics, bioinformatics, & teamwork

MSc

Meghan Pepler
(Elliot Lab)

Genetic regulation by ribonucleases in *Streptomyces*

PhD

Shehryar Ahmad
(Whitney Lab)

(p)ppApp synthetases are widespread bacterial toxins that are associated with diverse protein export pathways

11:35-12:00 pm · Michael Kiley Graduate Student Award Presentation

Phd

Derek Chan
(Burrows Lab)

A Tale of Two Receptors: Antibiotics that Bypass the Outer Membrane

Posters Q&A

Name	Title
Tamina Angel Jose	The Influence of Prophages on Probiotic Bacteria
Jessica Schneider	Melanin Production and Anti-fungal Resistance in Cryptococcal Hybrids
Meagan Archer	Reference Gene Validation as an Important Step Towards Elucidating the Mechanisms of Non-cyp51A Triazole Resistance in <i>Aspergillus fumigatus</i>
Greg Korfanty	Triazole-resistant <i>Aspergillus fumigatus</i> in Northwest Territories soil is closely related to the multiple triazole-resistant clonal genotype from India
Ramandeep Singh	Examination of the induction of innate immune memory of alveolar macrophages and trained innate immunity following respiratory exposure to infectious agents
Art Marzok	Viral infection accelerates ALS disease progression in SOD1G93A mice
Kevin Zhao	TNF impairs macrophage killing of <i>Streptococcus pneumoniae</i>
Sean Madden	Using a Transcriptional Reporter to Identify Antimicrobial Compounds that Target the Bacterial Cell Envelope
Sandy Zakaria	The Development of a Simple Nucleic Acid Method for the Detection of a Human Pathogenic Bacterium
Soyeon Lee	A DNase, 12-10, activated by the bacterial pathogen <i>Clostridium difficile</i>

Posters Q&A

Name	Title
Jessica Breznik	Assessments of humoral and cellular immunity 3-5 months post-SARS-CoV-2 mRNA vaccination in older adults in long-term care
Michael D'Agostino	Single-dose respiratory mucosal delivery of next-generation viral-vectored COVID-19 vaccine provides robust protection against both ancestral and variant strains of SARS-CoV-2
Jenna Benoit	The Impact of Immunomodulatory Drugs on COVID-19 Vaccination Responses
Hannah Stacey	IgA potentiates NETosis in response to viral infection
Yona Tugg	Therapeutic Monoclonal Antibodies for Influenza A Virus Infection
Sofya Ermolina	The role of the age-associated inflammation in cognitive decline
Amal Mathai	Developing a home-based detection test for SARS-CoV-2
Arman Edalatmand	A deep-learning approach for contextualizing antimicrobial resistance genes
Chadabhorn Insuk	Anti-infectious Activity of Actinobacteria from Mosses
Matt Zambri	Unique DivIVA dynamics and a reorganization of cell wall synthesis in <i>Streptomyces</i> exploration
Yue Wang	The origin of the superbug <i>Candida auris</i>
Anna Katyukhina	Identification of Actinomycin D Degrading Enzymes in Environmental Bacteria
Prakhar Shah	Determining the export mechanism of a widespread family of bacterial toxins

IIDR Trainee Day 2021

November 12

10:00-10:10 am . Covid Acknowledgement

10:10-11:40 am . Mildred Gulliver Graduate Scholarship
nominee Presentations

11:40-11:45 am . Closing Remarks

11:45-11:55 am . Coffee break

11:55-1:10 pm . Poster Q&A

1:10-1:55 pm . Online Social (Trivia)

IIDR Trainee Day 2021

Award Winners

10:10-11:40 am . Mildred Gulliver Graduate Scholarship nominee Presentations

Category	Student	Name	Title
Drug Development, Microbial Pathogenesis, and Microbial Interactions	MSc	Megan Tu	Exploiting inherent susceptibilities of carbapenem-resistant Gram-negative bacteria
Immunology and Clinical Applications	PhD	Ali Zhang	Broadly-neutralizing antibodies that bind to the hemagglutinin stalk domain enhance the effectiveness of neuraminidase inhibitors via Fc-mediated effector functions
Immunology and Clinical Applications	MSc	Jack Yang	Investigating Immune Responses to TB Infection and HIV/TB Co-infection in Humanized Mice
Drug Development, Microbial Pathogenesis,	PhD	Nathan Bullen	A bacterial toxin inhibits translation in competitor cells
Drug Development, Microbial Pathogenesis, and Microbial Interactions	MSc	Dominika Boron	Characterizing age-related changes within the upper respiratory tract microbiome to reduce the risk of respiratory infections in older adults
Diagnostics, Probes, and Tool Development	PhD	Jalees Nasir	A SIGNAL in the Dark: Canadian Efforts on Viral Surveillance of SARS-CoV-2

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Poster Q&A

Name	Title
Yuwei Jiang	A novel pathway regulates Microbiota-induced neuroprotection in <i>C. elegans</i> models of Alzheimer, Ås Disease
Rebecca Barnshaw	Investigating the localization and function of the type IV pili retraction ATPase PilU in <i>Pseudomonas aeruginosa</i>
Amogelang Raphenya	Identifying enzymes in the human gut microbiome that metabolize drugs
Dominique Tertigas	The Gut Microbiome of Pediatric Patients with Acute Severe Ulcerative Colitis Throughout Treatment
Amirahmad Azhieh	Investigating the Role of Microbe-Microbe Interactions in Dictating the Composition of the Human Microbiome
Amanda Bakke	Developing an in-vitro model of biofilm formation on vaginal epithelial cells using <i>G. vaginalis</i> bacteria.
Nuzhat Rahman	Developing human vaginal microbiota associated mouse models
Carmina Albertine Isidoro	Investigating the Anti-Inflammatory Action of Curcumin at the Female Reproductive Tract
Monica Warner	Understanding the role of UvrD1 in DNA double-strand break repair
George Long	A 16th Century <i>Escherichia coli</i> Opportunistic Bile Infection
Janice Tai	A MEGA-plate approach to train <i>Salmonella</i> through conditioning
Ikram Qaderi	Disruption of transcription termination: A tool to study the role of group III pilin accessory gene <i>tfpY</i>

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Poster Q&A

Name	Title
Luke Yaeger	Investigating the interaction between folate and peptidoglycan metabolic inhibitors
Victoria Tyndall	Discovering genetic determinants of mcr-1 mediated colistin resistance
Victoria Coles	Exploration of BAY 11-7082 as a novel antimicrobial
Denise Catacutan	Developing in vitro models for generating persisters in conditions mimicking different in vivo environments in humans
Min Wen Gong	Screening of a Natural Product Library for a Novel RNA Polymerase Inhibitor
Madeleine Lepard	Establishing Next-Generation Humanized Mouse Models for Investigating HIV Infection
Sophie Ngana	Influence of the Microbiome in Parkinson, Ås Disease Models of <i>C. elegans</i>
Charlotte Switzer	Likelihood of hospitalization for a chronic respiratory condition following pediatric infection with enterovirus and rhinovirus strains
Vithushan Surendran	Senataxin is Involved in Generating Antibody Diversity through Class Switch Recombination in B-cells
Alisha Kang	The induction and mechanisms of respiratory mucosal-associated trained innate immunity following parenteral BCG vaccination