## Med YSP 2023 Module 4: Microbiology - Learn To Appreciate The Little things In Life

Monday, July 31, 2023 Tuesday, August 1, 2023 Wednesday, August 2, 2023 Thursday, August 3, 2023 Friday, August 4, 2023 Activity Activity ttendance in MSB, David Naylor lobby Check-in David Naylor lobby of Medical Sciences 8:00 - 8:45 8:00 - 8:45 Attendance in Lecture room 8:00 - 8:45 Medical Sciences Building (aka Stone 8:00 - 8:45 Attendance in Lecture room 8:00 - 8:45 Attendance in Lecture room Building (aka Stone Lobby) Lobby) Rise & Shine Rise & Shine 8:15 - 8:45 Rise & Shine 8:15 - 8:45 8:15 - 9:00 Rise & Shine 8:15 - 9:00 8:15 - 9:00 Lara Christina & Eva Landon & Michael Elina & Esther Anika & Rachelle Meet in Lecture room MSB 3154
Welcome and Land Acknowledgment
Dr. David Dubins & Dr. Ian Crandall 8:45 - 9:00 Meet in Lecture room MSB 3154 8:55 - 9:00 Proceed to MSB lab rooms Meet in Lecture room MSB 3154 Meet in Lecture room MSB 3154 Bats and Viruses 9:00 - 9:40 Lab #12: Pipetting practice Hidden Killers: Unravelling the Biology of 9 - 10:00 Dr. Jonathan Kotwa, Sunnybrook Hospita 9:00 - 10:00 9:00 - 9:50 Human Fungal Pathogen Associate Professor, Teachina Stream, 9:40 - 10:15 Facutly of Pharmacy, UofT

Land Acknowledgement

Rachelle Lee

How to Maximize Your Experience Dr. Samira Mubareka, Sunnybrook Lab #13: Virus-Host Cell Interaction Lab Dr. Nicole Robbins, Department of Dr. Ashley Rooney, Dep. of Laboratory 9:00 - 9:15 Hospital Molecular Genetics
Q&A
Transfer to lab rooms
Lab #13: Virus-Host Cell Interaction Lab Medicine and Pahtobiology

Q&A

Transfer to lab rooms

Lab #6: Baculovirus lab Lab #2: Plating in Microbiology, Part D 10:15 - 10:40 9:55 - 10:00 10:25 - 10:35 Transfer to lab rooms Lab #1: Microorganisms from (Results from Re-Streaking 10:00 - 10:10 10:00 - 10:10 Teams Purple & Yellow Lab #5: Baculovirus lab Results (48hr) rtur Jakubowski, Program Coordinator 10:35 - 10:55 Environmental Surfaces 10:15 - 10:30 10:10 - 10:25 Results (24 hr)
Lab #3: Bacteria in Drinking Water Results (24hr)

ab #15: Van Gogh(ing) into the Sea, Part Results, (96hr)
Lab #15: Van Gogh(ing) into the Sea, Part Microbiology Overview 10:40 - 11:10 9:15 - 9:40 10:25 - 10:35 10:55 - 11:25 Results (24 hr) Dr. David Dubins and Dr. Ian Crandall Teams Purple & Yellow ab #4: Microbiology in the kitchen: Hand Lab #15: Van Gogh(ing) into the Sea, Part 10:35 - 10:50 Meet Instructors & Transfer to Jah rooms 10:45 - 11:05 Lab #5: MALDI-TOF, Analysis of Results washing Experiment
Results (24 hr)
Lab #5: Identify colonies for MALDI-TOF
analysis from: a) Drinking Water b) Teams Blue, Green, Red, Orange Lab #3: Bacteria in Drinking Water 9:40 - 9:50 11:25 - 11:35 10:40 - 11:10 Artur Jakubowski 11:05 - 11:15 Transfer to lecture room 10:50 - 11:00 Analysis of Pooled Data from all 6 teams In your lab room Results (48hr) The Great Game Show Trial Run 9:50 - 10:10 Meet and Greet 11:15 - 11:35 11:00 - 11:05 Lab cleanup + Checklist ion Determination and Mo 11:35 - 11:50 (Attendance, Ice breakers)

Lab Safety
(Fire, Medical, General Lab Safety, + lab Handwashing, and c) Environmental
Surfaces labs

sbmit your plates to DTL Technician who Lara (Student Experiene Guru) 11:10 - 11:15 Lab cleanup + Checklist 11:05 - 11:15 respective Roooms 11:35 - 12:00 Group Photo 10:10 - 10:30 Led by Student Experiene Guru coats)
Lab #1: Microorganisms from will sub-culture selected colonies on Campus Tour Rrain or shine, please dress appropriately Attend one of the following sessions as determined by 11:50 sharp! you and your Instructor
University Admissions, MSB 3154
Leah Robertson blood agar and send to Mount Sinai 11:15 - 11:55 11:45 - 12:00 Lab cleanup + Checklist 10:30 - 11:10 ronmental Surfaces Hospital for analysis. 11:15 - 12:00 11:45 - 12:00 Lab #2: Streaking for isolated colonies, Led by Each Team 11:10 - 11:45 Lab cleanup + Checklist Back at MSB to grab personal belonging Med YSP Photos Part A and B 11:55 - 12:00 11:45 - 11:55 Lab cleanup + Checklist and head out for lunch medysp.pixieset.com Panel Discussions, MSB 2172 11:15 - 12:00 Password: Medysp2023
Deadline to download photos
Fri. Aug. 18, 2023 Led by Instructors For troubleshooting WiFi, visit bit.ly/ysp-wifi Anatomy Museum, MSB 2278 11:15 - 12:00 NO PHONE RULE Led by Instructors

12 - 1 PM	Lunch	12 - 1 PM	Lunch	12 - 1 PM	Lunch	12 - 1 PM	Lunch	12 - 1 PM	Lunch
	Meet in Lecture room MSB 3154		Meet in Lecture room MSB 3154		Meet in Lecture room MSB 3154		Meet in Lecture room MSB 3154	1:00 - 1:10	Meet in your lab room
1 - 2 PM	Arboviruses: mosquito-borne viruses with pandemic potential	1 - 2 PM	Public Health Microbiology: A Fever from the Tropics	1 - 2 PM	Antibiotics	1 - 2 PM	Lessons in Water, Hand washing, and Food Safety Engineering	1:10 - 1:40	Surveys (Lab rooms) bit.ly/YSP23-survey-micro
	Dr. Kathryn Rosenberg, Dep't of Molecular Genetics		Dr. Ian Crandall, Associate Professor, Faculty of Pharmacy, UofT		Emily Puumala, Department of Molecular Genetics		Dr. David Dubins, Associate Professor, Faculty of Pharmacy, UofT	1:40 - 1:50	Wrap up (pick up belongings and certificates)
1:50 - 2 PM	Q&A	1:55 - 2 PM	Q&A	1:55 - 2 PM	Q&A	1:55 - 2 PM	Q&A	1:50 - 1:55	Transfer to lecture room MSB 3153
2 - 2:10	Transfer to lab rooms	2 - 2:10	Transfer to lab rooms	2 - 2:10	Transfer to lab rooms	2 - 2:10	Transfer to lab rooms	1:55 - 3:20	Career Perspectives Panel
2:00 -3:00	Lab #3: Bacteria in Drinking Water	Rotations (Tuesday to Thursday), 2:10 to 5 PM						1:55 - 2:20	Career speaker #1 Hyewoo (Diane) Lee
	Lab #4: Microbiology in the kitchen:							2:20 - 2:25	Switch over
3:00 - 3:45	Reducing Transmission Of Organisms By Hand Washing	25 min	All Teams  Lab #2: Streaking for isolated colonies,		All Teams Lab #14: Bacterial Sensitivity to		All Teams	2:25 - 2:50	Career speaker #2 Ghulam Dhabaan
	Lab #6: Baculovirus lab	25 min	Part C	45 min	Disinfectants, Antiseptics, and Antibiotics	20 min	Lab #14: Bacterial Sensitivity to	2:50 - 2:55	Switch over
3:45 - 4:15	Take photos over Days 1-5 and upload to SharePoint	10 min	Lab #8: Gram Stain of Unknown Part C. Streak for Isolated colonies		Lab, Part A, B, and C Lab #13: Virus-Host Cell Interaction Lab	20 min	Disinfectants and Antiseptics, Part A Results (24hr)	2:55 - 3:20	Career speaker #3 Seray Cicek
	Lab #5: MALDI-TOF, introduce method of		10 min	Results (4 hrs)			3:20 - 3:30	Buffer and Break	
4:15 - 4:30	collection	25 min	Lab #7: Microscopy Workshop	30 min	Lab #15: Van Gogh(ing) into the Sea, Part	10 min	Lab #14: Bacterial Sensitivity to Antibiotics Including E-test, Part B and C, Results		Land Acknowledgment Christina Tao
4:30 - 4:40	Introduce Activity 2: Meme Microbiology	30 min	Lab #8: Gram Stain, Part A and B	15 min	Lab #8: Gram Stain of Unknown		(24hr)	3:20 - 4:20	Extra Super Galactic Brain Buster Trivia
4:40 - 4:50	Lab cleanup + Checklist	10 min	Lab #6: Baculovirus lab	15111111	Part C: Streak for Isolated colonies	20 min	Lab #6: Baculovirus lab		Question Competition
4:50 - 5:00	Introduce Game Show		Results, (24 hr)				Results, (72hr)		Lara (Student Experiene Guru)
4:50 - 5:00	Led by each Team				Teams Blue, Green, Red, Orange Lab #5: Baculovirus lab	30 min	Lab #8: Gram Stain of Unknown Part D - The Actual Stain!	4:20 - 4:25	Closing Remarks Dr. Ian Crandall, Dr. David Dubins, and
	,			30 min	Results (48hr) Teams Purple & Yellow	15 min	Lab #5: MALDI-TOF explanation		Artur Jakubowski Reception & Refreshments
Reminders for Students							Minecraft and Microbiology Madness	4:25 - 5:00	David Naylor lobby of Medical Sciences
Wear closed toe shoes and long pants because you are					Teams Purple & Yellow	20 min	(Time permitting)		Building (aka Stone Lobby)
performing wet labs.				30 min	Lab #3: Bacteria in Drinking Water Results (48hr)				
Legend			Team Specific		Team Specific		Team Specific		

Lab #8: Electron Microscopy Facility Visit

Teams Purple & Yellow Lab #9: Motility Lab (MSB 2184)

Teams Green & Red Lab #10: Malaria lab Teams Blue & Orange

See start/end

times below

4:50 - 5:00

Lab #8: Electron Microscopy Facility Visit

Teams Blue & Orange Lab #9: Motility Lab (MSB 2184)

Teams Purple & Yellow Lab #10: Malaria lab Teams Green & Red

See start/end

times below

4:50 - 5:00

Lab #9: Electron Microscopy Facility Visit

Teams Green & Red Lab #10: Motility Lab (MSB 2184)

Teams Blue & Orange Lab #11: Malaria lab Teams Purple & Yellow

See start/end

times below

4:50 - 5:00

Lecture

Workshops

Community Building Game Show