

MED YSP 2025 Module 4: Microbiology

Name: _____

Monday, July 28, 2025 Microorganisms in the Environment		Tuesday, July 29, 2025 Bacteria and Gram Stain		Wednesday, July 30, 2025 Viruses & Antibiotics		Thursday, July 31, 2025 Bacteria All Over		Friday, August 1, 2025 Results & Career Speaker	
Time	Activity	Time	Activity	Time	Activity	Time	Activity	Time	Activity
8:00 - 8:45	Check-in David Naylor lobby of Medical Sciences Building (aka Stone Lobby)	8:00 - 8:45	Attendance in Lecture room	8:00 - 8:45	Attendance in MSB, David Naylor lobby of Medical Sciences Building (aka Stone Lobby)	8:00 - 8:45	Attendance in Lecture room	8:00 - 8:45	Attendance in Lecture room
8:15 - 8:45	Rise & Shine Melissa (SEG) & Javid	8:15 - 8:45	Rise & Shine Braydon & Landon	8:15 - 9:00	Rise & Shine Anka & Mads	8:15 - 9:00	Rise & Shine Amber & Erin	8:15 - 9:00	Rise & Shine Alex & Alice
8:45 - 9:00	Meet in Lecture room MSB 3153	Troubleshoot WiFi connections while students wait.		Troubleshoot WiFi connections while students wait.		Troubleshoot WiFi connections while students wait.		Troubleshoot WiFi connections while students wait.	
9:00 - 9:15	Welcome <i>Dr. Natasha Christie</i> Director, Emerging and Pandemic Infections Consortium (EPIC), UoT Land Acknowledgement <i>Alex Park</i>	9 - 10:00	Meet in Lecture room MSB 3153 Bats, viruses, and emerging infections. <i>Dr. Sophie-Marie Aicher, Sunnybrook Hospital</i>	8:55 - 9:00	Proceed to MSB lab rooms	9:00 - 10:00	Meet in Lecture room MSB 3153	9:00 - 9:55	Meet in Lecture room MSB 3153 You are what you eat: How the intestinal microbiome shapes health <i>Dr. Susy Hota, UHN</i>
	How to Maximize Your Experience <i>Artur Jakubowski</i>		10:00 - 10:10	Transfer to lab rooms	9:00 - 9:50		Lab #11: Pipetting practice		9:55 - 10:00
9:15 - 9:40	Microbiology Overview <i>Dr. Natasha Christie</i>	10:10 - 10:45	Lab #1: Microorganisms from Environmental Surfaces Results (24 hr)	10:20 - 10:50	Lab #2: Plating in Microbiology, Part D (Results from Re-Streaking)	10:00 - 10:10	Transfer to lab rooms	10:00 - 10:10	Transfer to lab rooms
9:40 - 9:50	Meet Instructors & Transfer to lab rooms <i>Artur Jakubowski</i>	10:45 - 11:25	Lab #3: Bacteria in Drinking Water Results (24 hr)	10:50 - 11:40	Lab #3: Bacteria in Drinking Water Results (48hr)	10:10 - 10:30	Lab #12: Virus-Host Cell Interaction Lab Results (24hr)	10:10 - 10:30	Lab #6: Baculovirus lab Results, (96hr)
9:50 - 10:10	In your lab room Meet and Greet (Attendance, Ice breakers)	11:25 - 11:35	Lab #4: Microbiology in the kitchen: Hand washing Experiment Results (24 hr)	11:40 - 12:00	Lab cleanup + Checklist	10:30 - 11:00	Lab #14: Van Gogh(ing) into the Sea, Part A Results (24hr)	10:30 - 10:40	Lab #14: Van Gogh(ing) into the Sea Part B Results, 24hr
10:10 - 10:30	Lab Safety (Fire, Medical, General Lab Safety, + lab coats)	11:35 - 11:50	Lab #5: Identify colonies for MALDI-TOF analysis from: a) Drinking Water b) Handwashing, and c) Environmental Surfaces labs	View plates at 48 hr and 72 hr		11:00 - 11:40	Lab #14: Van Gogh(ing) into the Sea, Part B	10:40 - 11:00	Lab #5: MALDI-TOF, Analysis of Results
10:30 - 11:10	Lab #1: Microorganisms from Environmental Surfaces	11:50 sharp!	Submit your plates to DTL Technician who will sub-culture selected colonies on blood agar and send to Mount Sinai Hospital for analysis.	Lab #1: Microorganisms from Environmental Surfaces		11:45 - 12:00	Lab cleanup + Checklist	11:00 - 11:10	Analysis of Pooled Data from all 6 teams
11:10 - 11:45	Lab #2: Streaking for isolated colonies, Part A and B	11:45 - 12:00	Lab cleanup + Checklist	Lab #3: Bacteria in Drinking Water		View plates at 48 hr and 72 hr		11:10 - 11:15	Lab cleanup + Checklist
11:45 - 11:55	Lab cleanup + Checklist			Lab #4: Microbiology in the kitchen: Reducing Transmission Of Organisms By Hand Washing		View plates at 48 hr and 72 hr		11:15 - 11:20	Rotation Determination and Move to respective Rooms
								Attend one of the following sessions as determined by you and your Instructor	
								11:20 - 12:00	Panel Discussions, MSB 2172 Led by Instructors
								or	
								11:20 - 12:00	Anatomy Museum, MSB 2278 NO PHONE RULE Led by Instructors

For Everyone
DO NOT throw out plates until Friday 11 AM

12 - 1 PM Lunch		12 - 1 PM Lunch		12 - 1 PM Lunch		12 - 1 PM Lunch		12 - 1 PM Lunch	
1 - 2 PM	Meet in Lecture room MSB 3153 Microbiology Overview (Artur will reach out) <i>Dr. Will Navarre, Associate Professor, Dept. of Molecular Genetics, UoT</i>	1 - 2 PM	Meet in Lecture room MSB 3153 Public Health Microbiology: A Fever from the Tropics (Malaria) <i>Dr. Ian Crandall, Associate Professor, Faculty of Pharmacy, UoT</i>	1 - 2 PM	Meet in Lecture room MSB 3153 Vaccines <i>Dr. Shelly Bolotin, Scientist, Microbiology Public Health Ontario Laboratory</i>	1 - 2 PM	Meet in Lecture room MSB 3153 HIV + Why Do We Need EPIC? <i>Dr. Natasha Christie, Director, EPIC, UoT</i>	1:00 - 1:10	Meet in your lab room
	1:50 - 2 PM		Q&A		1:55 - 2 PM		Q&A		1:55 - 2 PM
2 - 2:10	Transfer to lab rooms	2:00 PM	Announce Meme Micro Tue Winner	2:00 PM	Announce Meme Micro Wed Winner	2:00 PM	Announce Meme Micro Thu Winner	1:40 - 1:50	Wrap up (pick up belongings and certificates)
2:00 - 3:00	Lab #3: Bacteria in Drinking Water	2 - 2:10	Transfer to lab rooms	2 - 2:10	Transfer to lab rooms	2 - 2:10	Transfer to lab rooms	1:50 - 1:55	Transfer to lecture room MSB 3153
3:00 - 3:45	Lab #4: Microbiology in the kitchen: Reducing Transmission Of Organisms By Hand Washing	2:10 - 3:00	Lab #2: Streaking for isolated colonies Part C	2:10 - 3:00	Lab #13: Bacterial Sensitivity to Disinfectants, Antiseptics, and Antibiotics <i>Lab Part A, B, and C</i>	2:10 - 2:30	Lab #13: Bacterial Sensitivity to Disinfectants and Antiseptics, Part A Results (24hr only)	1:55 - 3:20	Career Perspectives Panel Krishana Sankar
3:45 - 4:15	Lab #6: Baculovirus lab Take photos over Days 1-5 and upload to SharePoint	3:00 - 3:30	Lab #7: Microscopy Workshop	3:00 - 3:20	Lab #12: Virus-Host Cell Interaction Lab Results (4 hrs)	2:30 - 2:50	Lab #13: Bacterial Sensitivity to Antibiotics Including E-test, Part B and C, Results (24hr)	2:20 - 2:25	Canadian Association of Science Centres Switch over
4:15 - 4:30	Lab #5: MALDI-TOF, introduce method of collection	3:30 - 4:15	Lab #8: Gram Stain, Part A and B	3:20 - 4:00	Lab #14: Van Gogh(ing) into the Sea Part A: Streak unknown organisms	2:50 - 3:10	Lab #6: Baculovirus lab Results, (72hr)	2:25 - 2:50	Simon Lam <i>Sanofi</i>
4:30 - 4:40	Introduce Activity 2: Meme Microbiology Madness (3M's)	4:15 - 4:50	Lab #6: Baculovirus lab Results (24hr)	4:00 - 4:20	Lab #8: Gram Stain of Unknown Part C: Streak for Isolated colonies	3:10 - 3:45	Lab #8: Gram Stain of Unknown Part D: The Actual Stain!	2:50 - 2:55	Switch over
4:40 - 4:50	Lab cleanup + Checklist	20 min	Bug of the Day <i>Time Permitting</i>	4:20 - 4:50	Lab #6: Baculovirus lab Results (48hr)	4:15 - 4:25	Lab cleanup + Checklist	2:55 - 3:20	Andra Banete <i>Clinical Microbiology Fellow, UoT</i>
4:50 - 5:00	Introduce Game Show	4:50 - 5:00	Lab cleanup + Checklist	20 min	Minecraft and Microbiology Madness <i>Time Permitting</i>	4:25 - 4:35	Transfer to lecture room 3153	3:20 - 3:30	Buffer and Break
								3:30 - 4:30	Land Acknowledgment <i>Hema Sampat</i> The Great Game Show <i>Melissa Beltran (Student Experience Guru)</i> Show 4 winners of Microbiology Meme Competition
								4:30 - 4:35	CSI Team Crime Scene Overview <i>André, Anka, Anu, and Stella</i>
								4:35 - 4:40	Closing Remarks <i>Dr. Natasha Christie</i> <i>Artur Jakubowski</i>
								4:40 - 5:15	Reception & Refreshments David Naylor lobby of Medical Sciences Building (aka Stone Lobby)

Reminders for Students
Wear closed toe shoes and long pants because you are performing wet labs.
For troubleshooting WiFi, visit bit.ly/ysp-wifi
VERIFY anatomy form is signed.

Med YSP Photos
<https://medysp.pixieset.com>
<https://medysp.pixieset.com>
Deadline to download photos
Fri. Aug. 15, 2025

Friday Game Show Prizes
Prizes awarded to top 3 scores.

Crew neck Backpack Hoodie