

MED YSP 2024 Module 2: Microbiology

Name: _____

Monday, July 15, 2024 Microorganisms in the Environment	
Time	Activity
8:00 - 8:45	Check-in David Naylor lobby of Medical Sciences Building (aka Stone Lobby)
8:15 - 8:45	Rise & Shine Rama (SEG) & Anika
8:45 - 9:00	Meet in Lecture room MSB 3154
9:00 - 9:15	Welcome and Land Acknowledgment <i>Dr. David Dubins & Dr. Ian Crandall</i> Associate Professor, Teaching Stream, Faculty of Pharmacy, UoF
	Land Acknowledgement <i>Anika Kisana</i>
	How to Maximize Your Experience <i>Azmiri Sultana, Lab Manager</i>
9:15 - 9:40	Microbiology Overview <i>Dr. David Dubins and Dr. Ian Crandall</i>
9:40 - 9:50	Meet Instructors & Transfer to lab rooms
9:50 - 10:10	In your lab room Meet and Greet (Attendance, Ice breakers)
	Lab Safety (Fire, Medical, General Lab Safety, + lab coats)
10:10 - 10:30	Lab #1: Microorganisms from Environmental Surfaces
10:30 - 11:10	Lab #2: Streaking for isolated colonies, Part A and B
11:10 - 11:45	Lab cleanup + Checklist

Reminders for Students
For troubleshooting WiFi, visit bit.ly/ysp-wifi

12 - 1 PM Lunch

Meet in Lecture room MSB 3154	
1 - 2 PM	Microbiology Overview <i>Dr. Will Navarre, Associate Professor, Dept. of Molecular Genetics, UoF</i>
1:50 - 2 PM	Q&A
2 - 2:10	Transfer to lab rooms
2:00 - 3:00	Lab #3: Bacteria in Drinking Water
3:00 - 3:45	Lab #4: Microbiology in the kitchen: Reducing Transmission Of Organisms By Hand Washing
3:45 - 4:15	Lab #6: Baculovirus lab Take photos over Days 1-5 and upload to SharePoint
4:15 - 4:30	Lab #5: MALDI-TOF, introduce method of collection
4:30 - 4:40	Introduce Activity 2: Meme Microbiology Madness (3M's)
4:40 - 4:50	Lab cleanup + Checklist
4:50 - 5:00	Introduce Game Show
Led by each Team	

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

Sign new and updated Anatomy Form

Tuesday, July 16, 2024 Bacteria and Gram Stain	
Time	Activity
8:00 - 8:45	Attendance in Lecture room
8:15 - 8:45	Rise & Shine Artemisa & Galvin
9 - 10:00	Meet in Lecture room MSB 3154 Bats, viruses, and emerging infections. <i>Dr. Jonathan Kotwa, Sunnybrook Hospital</i> <i>Dr. Samira Mubareka, Sunnybrook Hospital</i>
	Transfer to lab rooms
10:00 - 10:10	Lab #1: Microorganisms from Environmental Surfaces Results (24 hr)
10:10 - 10:45	Lab #3: Bacteria in Drinking Water Results (24 hr)
10:45 - 11:25	Lab #4: Microbiology in the kitchen: Hand washing Experiment Results (24 hr)
11:25 - 11:35	Lab #5: Identify colonies for MALDI-TOF analysis from: a) Drinking Water b) Handwashing, and c) Environmental Surfaces labs
11:35 - 11:50	Submit your plates to DTL technician who will sub-culture selected colonies on blood agar and send to Mount Sinai Hospital for analysis.
11:50 sharp!	
11:45 - 12:00	Lab cleanup + Checklist

12 - 1 PM Lunch

Meet in Lecture room MSB 3154	
1 - 2 PM	Public Health Microbiology: A Fever from the Tropics <i>Dr. Ian Crandall, Associate Professor, Faculty of Pharmacy, UoF</i>
1:55 - 2 PM	Q&A
2:00 PM	Announce Meme Micro Tue Winner
2 - 2:10	Transfer to lab rooms

Rotations (Tuesday to Thursday) 2:10 to 5 PM

All Teams	
30 min	Lab #2: Streaking for isolated colonies, Part C
30 min	Lab #7: Microscopy Workshop
35 min	Lab #8: Gram Stain, Part A and B
30 min	Teams Blue, Purple, Yellow Lab #6: Baculovirus lab Results (24hr)

Team Specific	
See start/end times below	Lab #9: Electron Microscopy Facility Visit Teams Green & Red Lab #10: Malaria lab Teams Purple & Yellow

4:50 - 5:00 Lab cleanup + Checklist

Wednesday, July 17, 2024 Viruses & Antibiotics	
Time	Activity
8:00 - 8:45	Attendance in MSB, David Naylor lobby of Medical Sciences Building (aka Stone Lobby)
8:15 - 9:00	Rise & Shine Erika & Ivy
8:55 - 9:00	Proceed to MSB lab rooms
9:00 - 9:50	Lab #11: Pipetting practice
9:50 - 10:20	Lab #12: Virus-Host Cell Interaction Lab
10:20 - 10:50	Lab #2: Plating in Microbiology, Part D (Results from Re-Streaking)
10:50 - 11:25	Lab #3: Bacteria in Drinking Water Results (48hr)
11:25 - 11:40	Lab cleanup + Checklist
11:40 - 11:45	Transfer to lecture room 3154
11:45 - 12:00	The Great Game Show Trial Run <i>Rama (Student Experience Guru)</i>
View plates at 48 hr and 72 hr depending on results of 24hr	
Lab #1: Microorganisms from Environmental Surfaces	
Lab #3: Bacteria in Drinking Water	
Lab #4: Microbiology in the kitchen: Reducing Transmission Of Organisms By Hand Washing	

12 - 1 PM Lunch

Meet in Lecture room MSB 3154	
1 - 2 PM	HIV + Why Do We Need EPIC? <i>Natasha Christie, Director, EPIC, UoF</i>
1:55 - 2 PM	Q&A
2:00 PM	Announce Meme Micro Wed Winner
2 - 2:10	Transfer to lab rooms

All Teams	
45 min	Lab #13: Bacterial Sensitivity to Disinfectants, Antiseptics, and Antibiotics Lab, Part A, B, and C
10 min	Lab #12: Virus-Host Cell Interaction Lab Results (4 hrs)
30 min	Lab #14: Van Gogh(ing) into the Sea Part A: Streak unknown organisms
15 min	Lab #8: Gram Stain of Unknown Part C: Streak for Isolated colonies
30 min	Teams Green, Red, Orange Lab #6: Baculovirus lab Results (48hr)

Team Specific	
See start/end times below	Lab #9: Electron Microscopy Facility Visit Teams Purple & Yellow Lab #10: Malaria lab Teams Blue & Orange

4:50 - 5:00 Lab cleanup + Checklist

Thursday, July 18, 2024 Bacteria All Over	
Time	Activity
8:00 - 8:45	Attendance in Lecture room
8:15 - 9:00	Rise & Shine Landon & Tam
9:00 - 10:00	Meet in Lecture room MSB 3154
	Clinical Microbiology: MERS + Virology <i>Dr. Rob Kozak, Sunnybrook Hospital</i>
9:55 - 10:00	Q&A
10:00 - 10:10	Transfer to lab rooms
10:10 - 10:30	Lab #12: Virus-Host Cell Interaction Lab Results (24hr)
10:30 - 11:00	Lab #14: Van Gogh(ing) into the Sea, Part A Results (24hr)
11:00 - 11:40	Lab #14: Van Gogh(ing) into the Sea, Part B
11:45 - 12:00	Lab cleanup + Checklist
View plates at 48 hr and 72 hr depending on results of 24hr	
Lab #1: Microorganisms from Environmental Surfaces	
Lab #3: Bacteria in Drinking Water	
Lab #4: Microbiology in the kitchen: Reducing Transmission Of Organisms By Hand Washing	

Med YSP Photos
medysp.pixieset.com
Password: Check Quercus
Deadline to download photos
Fri. Aug. 16, 2024

12 - 1 PM Lunch

Meet in Lecture room MSB 3154	
1 - 2 PM	Lessons in Water, Hand washing, and Food Safety Engineering <i>Dr. David Dubins, Associate Professor, Faculty of Pharmacy, UoF</i>
1:55 - 2 PM	Q&A
2:00 PM	Announce Meme Micro Thu Winner
2 - 2:10	Transfer to lab rooms

All Teams	
20 min	Lab #13: Bacterial Sensitivity to Disinfectants and Antiseptics, Part A Results (24hr only)
10 min	Lab #13: Bacterial Sensitivity to Antibiotics Including E-test, Part B and C, Results (24hr)
20 min	Lab #6: Baculovirus lab Results, (72hr)
30 min	Lab #8: Gram Stain of Unknown Part D: The Actual Stain!
15 min	Lab #5: MALDI-TOF explanation

Team Specific	
See start/end times below	Lab #9: Electron Microscopy Facility Visit Teams Blue & Orange Lab #10: Malaria lab Teams Green & Red

4:50 - 5:00 Lab cleanup + Checklist

Friday, July 19, 2024 Results & Career Speaker	
Time	Activity
8:00 - 8:45	Attendance in Lecture room
8:15 - 9:00	Rise & Shine Sarah & Raunak
9:00 - 9:55	Meet in Lecture room MSB 3154
	Gut Microbiome <i>Dr. Eric Armstrong, UHN</i>
9:55 - 10:00	Q&A
10:00 - 10:10	Lab #6: Baculovirus lab Results, (96hr) > in lecture room
10:10 - 10:20	Transfer to lab rooms
10:25 - 10:35	Lab #14: Van Gogh(ing) into the Sea, Part B Results, 24hr
10:35 - 10:50	Lab #5: MALDI-TOF, Analysis of Results
10:50 - 11:00	Analysis of Pooled Data, from all 6 teams
11:00 - 11:05	Lab cleanup + Checklist
11:05 - 11:15	Rotation Determination and Move to respective Rooms

Attend one of the following sessions as determined by you and your Instructor
University Admissions, MSB 3154
Leah Robertson
or
Panel Discussions, MSB 2172
Led by Instructors
or
Anatomy Museum, MSB 2278
NO PHONE RULE
Led by Instructors

12 - 1 PM Lunch

Meet in your lab room	
1:00 - 1:10	Surveys (Lab rooms)
1:10 - 1:40	https://bit.ly/ysp24-survey-micro Wrap up (pick up belongings and certificates)
1:40 - 1:50	Transfer to lecture room MSB 3153
1:50 - 1:55	Career Perspectives Panel

Career speaker #1 Ghulam Dhabaan Clinical Microbiology Fellow, Dep of Laboratory Medicine & Pathobiology	
1:55 - 2:20	Switch over
2:20 - 2:25	Career speaker #2 <i>Tiana Young</i>
2:25 - 2:50	Switch over
2:50 - 2:55	Career speaker #3 <i>Ryan Marks</i>
2:55 - 3:20	Buffer and Break
3:20 - 3:30	Land Acknowledgment <i>Javid Guliyev</i>
3:20 - 4:20	Extra Super Galactic Brain Buster Trivia Game Show <i>Rama (Student Experience Guru)</i> Closing Remarks <i>Dr. Ian Crandall, Dr. David Dubins, and Dr. Azmiri Sultana</i>

Team Specific	
See start/end times below	Lab #9: Electron Microscopy Facility Visit Teams Blue & Orange Lab #10: Malaria lab Teams Green & Red

4:50 - 5:00 Lab cleanup + Checklist