## Water Bacteriology Agenda

Wilson Talent Center Mason, MI August 6-8, 2024

Day	Lecture Topics	Labs
Tuesday		
8:00AM – 8:15AM	Registration and Intro	
8:30AM - 11:30AM	Basic Microbiology	Ex. 1 Innoc TC by MTF - River
(includes 15 min.	Total Coliform Bacteria	·
break)	Multiple Tube Fermentation	
	Technique	
11:30AM – 12:15PM	Lunch (provided)	
12:15PM – 2:30PM	Sampling	Collect samples
(includes 15 min.	Presence Absence Philosophy	Ex. 2: Innoc HPC, pour & Simplate
break)	E. coli and MUG	• Ex. 3: Innoc PA
•	Combined Enzymatic Test	Ex. 4: Innoc Colilert quantitray
2:30PM – 4:00PM Lab	Membrane Filtration	• Ex. 5 Colisure
	HPC	• Ex. 6 Pseudalert
	Genetic Techniques	• Ex. 7: Innoc. MF River
Wednesday	Genetic reciniques	CA. 7. IIIIOC. IVII IIIVCI
8:00AM – 11:30AM	Review	Ex. 1: Read TC by MTF
(includes 15 min.	• RTCR	• Ex. 1: Trans TC pos to BGB
break)	• RICK	·
11:30AM – 12:15PM	Lunch (provided)	Ex. 1: Trans TC pos to EC-MUG
12:15PM –3:00PM		a Fy 2t Board BA
	Nuisance Bacteria	• Ex. 3: Read PA
(includes 15 min. break)	QAQC     ACC (ACC)	• Ex. 4: Read Colilert
bieak)	PCR/QPCR	• Ex. 5: Read Colisure
3:00PM – 4:00PM Lab		Ex. 6: Read Pseudalert
3.00FIVI - 4.00FIVI Lab		•
		• Ex. 7: Read MF
Thursday		
8:00AM – 10:15AM	Virus, Fungi, Protozoa,	Ex. 1: Read TC by MTF
(includes 15 min.	Cyanobacteria	Ex. 1: Read E. coli by EC-MUG
break)	Biofilms	• Ex. 1: Read BGB
	Removal of Microorganisms	• Ex. 9: Gram stain
10:15AM – 11:30AM	<ul> <li>Stressed Organisms</li> </ul>	
Lab	Biosensors	
	Review	
11:30AM – 12:15PM	Lunch (provided)	
12:15PM –2:15PM	Emerging Pathogens	Ex. 2: Read HPC pour
(includes 15 min.	Calculations	Ex. 2: Read Simplate
break)	General Q&A	• Ex. 3: Read PA
	Data Interpretation	• Ex. 10: BART
2:15PM – 4:00PM	Review	Complete calcs
Lab/Wrap Up		Clean up
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