



Phage Discovery Workshop

@ University of Maryland Baltimore County

	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday
7:30 AM	Pre-Arrival Assignment: Protocol p5.1	7:30 Breakfast Springhill Suites Hotel	7:30 Breakfast Springhill Suites Hotel	7:30 Breakfast Springhill Suites Hotel	7:30 Breakfast Springhill Suites Hotel	7:30 Breakfast Springhill Suites Hotel
8:00 AM		8:00 Shuttle Springhill Suites Hotel to UMBC		8:00 Shuttle Springhill Suites Hotel to UMBC	8:00 Shuttle Springhill Suites Hotel to UMBC	8:00 Shuttle Springhill Suites Hotel to UMBC
8:30 AM		8:30 Lab Meeting Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts		8:30 Lab Meeting Vic Sivanathan & Pushpa Ramakrishna 310 University Center	8:30 Lab Meeting Vic Sivanathan & Pushpa Ramakrishna 201 Meyerhoff	8:30 Lab Meeting Vic Sivanathan & Pushpa Ramakrishna 201 Meyerhoff
8:45 AM		8:45 Lec: Isolation - Direct Isolation, Plaque Assay Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts		8:45 Lec: Purification - Collecting Plate Lysates, Spot Titer, Full Plate Titer Vic Sivanathan & Pushpa Ramakrishna 310 University Center	8:45 Demo: Characterization - Gel Electrophoresis Nick Peters 201 Meyerhoff	8:45 Lab: Microscopy - Grid Setup & Imaging Rick Pollenz & Nick Peters 201 Meyerhoff
9:00 AM					p10.3: Gel Electrophoresis of Restriction Enzyme Digests	p8.1a&b: Mounting Phage Samples for TEM
9:15 AM		9:15 Demo: Isolation - Direct Isolation, Plaque Assay Rick Pollenz 201 Meyerhoff		9:15 Demo: Purification - Collecting Plate Lysates: Flood, Spot Titer, Full Plate Titer Stephanie Mathews 201 Meyerhoff		*Review Webbed Plates; Prepare for Phage Nomination
9:30 AM		9:30 Lab: Isolation - Direct Isolation, Plaque Assay Rick Pollenz & Stephanie Mathews 201 Meyerhoff		9:30 Lab: Purification - Collecting Plate Lysates (Flood ONLY) Stephanie Mathews & Rick Pollenz 201 Meyerhoff		
10:00 AM		p5.2: Direct Isolation; p5.3: Plaque Assay		p6.3: Collecting Plate Lysates		
10:15 AM		10:15 - 10:30 Break 011 Fine Arts	10:00 Shuttle Springhill Suites Hotel to UMBC	10:15 - 10:30 Break 312 University Center	10:00 Group Photo Depart from 201 Meyerhoff	10:15 - 10:30 Break 011 Fine Arts
10:30 AM		10:30 Lec: Isolation - Enriched Isolation, Spot Test Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts	10:15 - 10:30 Break 011 Fine Arts	10:30 Lab: Purification - Spot Titer, Full Plate Titer Stephanie Mathews & Rick Pollenz 201 Meyerhoff	10:15 - 10:30 Break 011 Fine Arts	10:30 Lab: Microscopy - Grid Setup & Imaging Rick Pollenz & Nick Peters 201 Meyerhoff
10:45 AM			10:30 Lab Meeting Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts	p6.4: Spot Titer, p6.5: Full Plate Titer	10:30 Lec: Amplification - Calculate Titer & Preparing Webbed Plates Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts	p8.1a&b: Mounting Phage Samples for TEM
11:00 AM		11:00 Demo: Isolation - Enriched Isolation, Spot Test Rick Pollenz 201 Meyerhoff	11:00 Lec: Ordering, Preparing Reagents, Working with Bacteria Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts			*Review Webbed Plates; Prepare for Phage Nomination
11:15 AM		11:15 Lab: Isolation - Enriched Isolation, Spot Test Rick Pollenz & Stephanie Mathews 201 Meyerhoff			11:15 Lab: Amplification - Calculate Titer SEA Team 201 Meyerhoff	
11:30 AM		p5.5: Enriched Isolation; p5.6: Spot Test				
12:00 PM		12:00 - 1:00 Lunch 011 Fine Arts	12:00 - 1:00 Lunch 011 Fine Arts	12:00 - 1:00 Lunch 312 University Center	12:00 - 1:00 Lunch, Implementation Discussion 011 Fine Arts	12:00 - 1:00 Lunch 011 Fine Arts
1:00 PM			1:00 Lab: Working with Bacteria Vic Sivanathan & Pushpa Ramakrishna, SEA Team 201 Meyerhoff	1:00 Lec: DNA Extraction Vic Sivanathan & Pushpa Ramakrishna 310 University Center	1:00 Lab: Amplification - Webbed Plates Nick Peters & Kissaou Tchadre 201 Meyerhoff	1:00 Lab: Finalize Microscopy & Clean Up 201 Meyerhoff
1:30 PM		1:30 Lec: Purification - Serial Dilution, Plaque Assay Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts	1:30 Lec: Purification - Picking Plaques, Plaque Assay Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts	1:30 Demo: DNA Extraction Kissaou Tchadre 201 Meyerhoff	p7.1: Making Webbed Plates	
1:45 PM				1:45 Lab: DNA Extraction Kissaou Tchadre & Nick Peters 201 Meyerhoff		
2:00 PM		2:00 Demo: Purification - Serial Dilution, Plaque Assay Rick Pollenz 201 Meyerhoff	2:00 Lab Meeting - Review Isolation & Purification plates SEA Team 201 Meyerhoff	p9.1: Phage DNA Extraction		2:00 Lec: Archiving Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts
2:30 PM	2:30 Shuttle Hotel to UMBC 011 Fine Arts	2:30 Lab: Purification - Serial Dilution, Plaque Assay Rick Pollenz & Stephanie Mathews 201 Meyerhoff	2:30 Demo: Purification - Picking Plaques, Plaque Assay Stephanie Mathews 201 Meyerhoff		2:30 Lab Meeting: Data Analyses SEA Team 201 Meyerhoff	2:30 Lec: Assessment Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts
2:45 PM		p6.2: Serial Dilution; p5.3: Plaque Assay			p6.4: Spot Titer; p6.5: Full Plate Titer; p10.5: Analyzing Restriction Enzyme Gels	
3:00 PM	3:00 Welcome Vic Sivanathan & Pushpa Ramakrishna 011 Fine Arts		2:45 Lab: Purification - Picking Plaques, Plaque Assay Stephanie Mathews & Rick Pollenz 201 Meyerhoff			
3:15 PM		3:15 - 3:30 Break 011 Fine Arts				
3:30 PM	3:30 Lec: Isolation - Phage Extraction Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts		3:15 - 3:30 Break 011 Fine Arts	3:15 - 3:30 Break 312 University Center	3:15 - 3:30 Break 011 Fine Arts	3:15 - 3:30 Break 011 Fine Arts
4:00 PM	4:00 Demo: Lab Safety Vic Sivanathan & Pushpa Ramakrishna 201 Meyerhoff	4:00 Review "Models of CRE Instruction" & "Models of CRE Assessment" + Free Time 011 Fine Arts	4:00 Develop Implementation Plan 011 Fine Arts	4:00 Demo: Characterization - Restriction Enzyme Digest Kissaou Tchadre 201 Meyerhoff	4:00 Demo: Microscopy - Grid Setup Vic Sivanathan 201 Meyerhoff	4:00 Demo: Microscopy - Grid Setup & Make Webbed Plates SEA Team 201 Meyerhoff
4:15 PM	4:15 Demo: Sterile Technique, Isolation - Phage Extraction Nick Peters 201 Meyerhoff			4:15 Lab: Characterization - Restriction Enzyme Digest Kissaou Tchadre & Nick Peters 201 Meyerhoff	4:30 Lec: Microscopy Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts	4:30 Implementation Q&A SEA Team 014 Fine Arts
4:30 PM	4:30 Lab: Isolation - Phage Extraction Nick Peters & Kissaou Tchadre 201 Meyerhoff			p10.1: Setting Up Restriction Enzyme Digests		
5:00 PM	5:00 Lec: Phage Biology Primer Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts				p8.1a&b: Mounting Phage Samples for TEM	
5:30 PM	5:30 Lec: Isolation - Enriched Isolation Vic Sivanathan & Pushpa Ramakrishna 014 Fine Arts				Note: Course Prep & Implementation Strategy Development, Phage Nomination	
6:00 PM	6:00 - 7:30 Dinner & Social 011 Fine Arts	6:00 - 7:30 Dinner & Faculty Talk Nick Peters 011 Fine Arts	6:00 - 7:30 Dinner & Faculty Talk Rick Pollenz 011 Fine Arts	6:00 - 7:30 Dinner & Faculty Talk Stephanie Mathews 312 University Center	6:00 - 7:30 Dinner & Faculty Talk Kissaou Tchadre 011 Fine Arts	6:00 - 7:30 Dinner & Faculty Talk Vic Sivanathan 011 Fine Arts
7:30 PM	7:30 Demo: Isolation - Enriched Isolation Nick Peters 201 Meyerhoff	7:30 Debriefing & Social 011 Fine Arts	7:30 Debriefing & Social Commons Sports Zone	7:30 Debriefing & Social 312 University Center	7:30 Debriefing & Social 011 Fine Arts	7:30 Final Exam & Certification Commons Flat Tuesday
7:45 PM	7:45 Lab: Isolation - Enriched Isolation Nick Peters & Kissaou Tchadre 201 Meyerhoff					
8:00 PM		8:00 Shuttle UMBC to Springhill Suites	8:00 Shuttle UMBC to Springhill Suites	8:00 Shuttle UMBC to Springhill Suites	8:00 Shuttle UMBC to Springhill Suites	
8:30 PM						
9:00 PM	8:30 Shuttle UMBC to Springhill Suites	9:00 Shuttle UMBC to Springhill Suites	9:00 Shuttle UMBC to Springhill Suites	9:00 Shuttle UMBC to Springhill Suites	9:00 Shuttle UMBC to Springhill Suites	
10:00 PM	Homework	Homework	Homework	Homework	Homework	10:00 Shuttle UMBC to Springhill Suites