hhmi SEA PHAGES — Phage Discovery Workshop @ University of Maryland Baltimore County

	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
7:30	Pre-Arrival Assignment:	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	7:30 | Breakfast | Springhill Suites Hotel
8:30 AM	Protocol p5.1	8:30 | Lab Meeting | Vic Sivanathan & Pushpa Ramakrishna |	8:30 | Lab Meeting | Vic Sivanathan & Pushpa Ramakrishna |	8:30 | Lab Meeting | Vic Sivanathan & Pushpa Ramakrishna |	8:30 | Lab Meeting | Vic Sivanathan & Pushpa Ramakrishna | 201	8:30 | Lab Meeting | Vic Sivanathan & Pushpa Ramakrishna | 201 Meyerhoff	8:30 | Lab: Amplification III - Webbed Plates | SEA Team | 201 Meyerhoff
8:45 AM		8:45 | Lec: Isolation III - Direct Isolation, Plaque Assay | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	8:45 | Lec: Ordering, Preparing Reagents, Resources | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	8:45 | Lec: Purification III - Collecting Plate Lysates, Spot Titer, Full Plate Titer | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	8:45 |Demo: Characterization - Gel Electrophoresis | Nick Edgington | 201 Meyerhoff	8:45 | Lab: Microscopy - Grid Setup & Imaging | Mary Ayuk, Nick Edgington | 201 Meyerhoff p8.1a&b: Mounting Phage Samples for TEM	8:45 | Lab: Amplification II - Webbed Plates | Madeline Dojs, Elvira Eivazova | 201 Meyerhoff
9:00 AM					9:00 |Lab: Characterization - Gel Electrophoresis | Madeline Dojs, Elvira Eivazova | 201 Meyerhoff		9:00 | Lab Meeting | SEA Team | 201 Meyerhoff
9:15 AM		9:15 | Demo: Isolation III - Direct Isolation, Plaque Assay | Mary Ayuk | 201 Meyerhoff		9:15 | Demo: Purification III - Collecting Plate Lysates: Flood, Spot Titer, Full Plate Titer | Nick Edgington | 201 Meyerhoff		p7.1: Making Webbed Plates	
9:30 AM		9:30 | Lab: Isolation III - Direct Isolation, Plaque Assay | Mary Ayuk, Nick Edgington | 201 Meyerhoff p5.2:Direct Isolation; p5.3: Plaque Assay	9:15 | Lec: Working with Bacteria & Phage| Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	9:30 | Lab: Purification III - Collecting Plate Lysates (Flood ONLY) | Nick Edgington, Mary Ayuk | 201 Meyerhoff	p10.3: Gel Electrophoresis of Restriction Enzyme Digests		
10:00 AM				p6.3: Collecting Plate Lysates	10:00 | **Group Photo** | Depart from 201 Meyerhoff		
10:15 AM		10:15 - 10:30 | **Break** | 145 Meyerhoff	10:15 - 10:30 | **Break** | 145 Meyerhoff	10:15 - 10:30 | **Break** | 145 Meyerhoff	10:15 - 10:30 | **Break** | 145 Meyerhoff	10:15 - 10:30 | **Break** | 145 Meyerhoff	10:15 - 10:30 | **Break** | 145 Meyerhoff
10:30 AM		10:30 | continue, Lab: Isolation III - Direct Isolation, Plaque Assay | Mary Ayuk, Nick Edgington | 201 Meyerhoff	10:30 | Lab: Working with Bacteria | Vic Sivanathan & Pushpa Ramakrishna, SEA Team | 201 Meyerhoff	10:30 | Lab: Purification III - Spot Titer, Full Plate Titer | Nick Edgington, Mary Ayuk | 201 Meyerhoff	10:45 |Open Lab, Collecting Plate Lysates from 48 hr Enrichments | SEA Team | 201 Meyerhoff	10:30 | Lab: Microscopy - Grid Setup & Imaging | Mary Ayuk, Nick Edgington | 201 Meyerhoff	10:30 | Lab: Amplification II - Webbed Plates | Madeline Dojs, Elvira Eivazova | 201 Meyerhoff	10:30 | Lab Clean-Up | 201 Meyerhoff
11:30 AM			11:30 | Lec: Purification II - Picking Plaques, Plaque Assay | Vic Sivanathan & Pushpa Ramakrishna| 120 Meyerhoff				10:45 | Final Exam | 201 Meyerhoff
11:45 AM				p6.4: Spot Titer, p6.5: Full Plate Titer			11:30 | Award Ceremony | 201 Meyerhoff
12:00 PM		12:00 - 1:00 | **Lunch** | 145 Meyerhoff	12:00 - 1:00 | **Lunch** | 145 Meyerhoff	12:00 - 1:00 | **Lunch** | 145 Meyerhoff	12:00 - 1:00 | **Lunch, Implementation Discussion** | 145 Meyerhoff	12:00 - 1:00 | **Lunch** | 145 Meyerhoff	12:00 | **Boxed Lunches For Departure** | 145 Meyerhoff
1:00 PM		1:00 | Lec: Isolation IV - Enriched Isolation, Spot Test | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	1:00 | Lab Meeting - Review Isolation & Purification I plates| SEA Team | 201 Meyerhoff	1:00 | Lec: DNA Extraction | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	1:00 | Lec: Amplification I - Calculate Titer & Preparing Webbed Plates | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	1:00 | Lab: Microscopy - Grid Setup & Imaging | Mary Ayuk, Nick Edgington | 201 Meyerhoff | 201 Meyerhoff	
1:30 PM		1:30 | Demo: Isolation IV - Enriched Isolation, Spot Test | Mary Ayuk | 201 Meyerhoff	1:30 | Demo: Purification II - Picking Plaques, Plaque Assay | Nick Edgington | 201 Meyerhoff	1:30 | Demo: DNA Extraction | Madeline Dojs | 201 Meyerhoff	1:30 | Lab: Amplification I - Calculate Titer | SEA Team | 201 Meyerhoff	p7.1: Making Webbed Plates	p8.1a&b: Mounting Phage Samples for TEM
1:30 PM		1:45 | Lab: Isolation IV - Enriched Isolation, Spot Test | Mary Ayuk, Nick Edgington | 201 Meyerhoff	1:45 | Lab: Purification II - Picking Plaques, Plaque Assay | Nick Edgington, Mary Ayuk | 201 Meyerhoff	1:45 | Lab: DNA Extraction | Madeline Dojs, Elvira Eivazova | 201 Meyerhoff			
2:00 PM					2:00 | Lab Meeting: Data Analyses | SEA Team | 201 Meyerhoff		
2:30 PM	2:30 | Shuttle to UMBC & Registration |145 Meyerhoff	p5.5: Enriched Isolation; p5.6: Spot Test		p9.1: Phage DNA Extraction			
2:45 PM					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| 120 Meyerhoff						
3:15 PM		3:15 - 3:30 | **Break** | 145 Meyerhoff	3:15 - 3:30 | **Break** | 145 Meyerhoff	3:15 - 3:30 | **Break** | 145 Meyerhoff	3:15 - 3:30 | **Break** | 145 Meyerhoff	3:15 - 3:30 | **Break** | 145 Meyerhoff	
3:30 PM	3:30 | Lec: Isolation I - Phage Extraction | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	3:30 | Lec: Purification I - Serial Dilution, Plaque Assay | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	3:30 - 4:30 |Open Lab, 48 hr Enrichment| SEA Team | 201 Meyerhoff	3:30 | Lec: Characterization - Restriction Enzyme Digest | Vic Sivanathan & Pushpa Ramakrishna| 120 Meyerhoff	3:30 | Lec: Microscopy | Vic Sivanathan & Pushpa Ramakrishna| 120 Meyerhoff	3:30 | Lec: Archiving | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	
4:00 PM	4:00 | Demo: Lab Safety | Vic Sivanathan & Pushpa Ramakrishna | 201 Meyerhoff	4:00 |Demo: Purification I - Serial Dilution, Plaque Assay | Mary Ayuk | 201 Meyerhoff	*p5.6: Spot Test* *Media & Lab Prep Tour / Q&A*	4:00 |Demo: Characterization - Restriction Enzyme Digest | Madeline Dojs | 201 Meyerhoff	4:00 |Demo: Microscopy - Grid Setup | Vic Sivanathan & Pushpa Ramakrishna | 201 Meyerhoff	4:00 | Lec: Assessment | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff	
4:15 PM	4:15 | Demo: Sterile Technique, Isolation I - Phage Extraction | Elvira Eivazova | 201 Meyerhoff	4:15 | Lab: Purification I - Serial Dilution, Plaque Assay | Mary Ayuk, Nick Edgington | 201 Meyerhoff		4:15 | Lab: Characterization - Restriction Enzyme Digest | Madeline Dojs, Elvira Eivazova | 201 Meyerhoff			
4:30 PM	4:30 | Lab: Isolation I - Phage Extraction | Elvira Eivazova, Madeline Dojs | 201 Meyerhoff		4:30 | Review "Models of CRE Instruction" & "Models of CRE Assessment" + Free Time		4:30 | Lab: Microscopy - Grid Setup | SEA Team | 201 Meyerhoff p8.1a&b: Mounting Phage Samples for TEM	4:30 | Phage Nomination & Voting | SEA Team | 120	
4:45 PM	p5.5: Enriched Isolation	p6.2: Serial Dilution; p5.3: Plaque Assay		p10.1: Setting Up Restriction Enzyme Digests	Note: Course Prep & Implementation Strategy Development, Phage Nomination		
5:00 PM	5:00 | Lec: Phage Biology Primer | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff					5:00 | Implementation Q&A | SEA Team | 120	
5:15 PM							
5:30 PM	5:30 | Lec: Isolation II - Enriched Isolation | Vic Sivanathan & Pushpa Ramakrishna | 120 Meyerhoff						
6:45 PM	6:00 - 7:00 | **Dinner** | 145 Meyerhoff	6:00 - 7:30 | Dinner & Faculty Talk | Elvira Eivazova | Skylight Lounge	6:00 - 7:30 | Dinner & Faculty Talk | Mary Ayuk | Skylight Lounge	6:00 - 7:30 | Dinner & Faculty Talk | Nick Edgington | Skylight Lounge	6:00 - 7:30 | Dinner & Faculty Talk | Madeline Dojs | Skylight Lounge	6:00 - 7:30 | Dinner & Advance Phage Biology | Danielle Heller | Skylight Lounge	
7:00 PM	7:00 | Demo: Isolation II - Enriched Isolation | Elvira Eivazova | 201 Meyerhoff						
7:15 PM	7:15 | Lab: Isolation II - Enriched Isolation | Elvira Eivazova, Madeline Dojs | 201 Meyerhoff	7:30 | Debriefing & Social | Commons Game Room	7:30 | Debriefing & Social | Commons Game Room	7:30 | Debriefing & Social | Commons Game Room	7:30 | Debriefing & Social | Commons Game Room	7:30 | Final Exam | Commons Game Room	
7:30 PM	p5.5: Enriched Isolation						
8:00 PM	8:00 | **Debriefing & Social** | Commons Game Room						
	Homework	Homework	Homework	Homework	Homework	Homework	