

<b>Learning Objectives</b>	<p>Participants will be able to:</p> <ul style="list-style-type: none"> <li>• Characterize and investigate phage genomes, including the details of gene calling, functional assignments, and preparing a final product of a submission file that meets QC requirements.</li> <li>• Install and use the software for annotation/analyses of phages. The software includes DNA Master, Phamerator, PECAAN, and other web-based tools.</li> <li>• Identify basic phage biology concepts that underlie the bioinformatic investigations.</li> <li>• Devise a systematic plan for implementation of phage genomics in their classroom.</li> </ul>
<b>Pre-req</b>	<p>Participants will bring a computer with all software installed and tested. See computer requirements and software installation information at <a href="http://seaphages.org/faculty/information/#bioinformatics">http://seaphages.org/faculty/information/#bioinformatics</a>.</p>

<b>Friday, December 12</b>	<b>Time</b>	<b>Location</b>	<b>Topic</b>
	2:00-4:00p	Conference Center	<b>Registration</b>
	4:00	D124/D125	<b>Introductions</b>
	4:30	D124/D125	<b>Central Dogma</b>
	5:30	Dining Room	Dinner
	6:45	D124/D125	<b>Introduction to Genome Annotation &amp; Getting Started</b>
	8:00	Pilot	<b>Social</b>

<b>Saturday, December 13</b>	<b>Time</b>	<b>Location</b>	<b>Topic</b>
	8:15a	Dining Room	Breakfast
	9:00	D124/D125	<b>Getting started in DNA Master and PECAAN</b>
	10:15	Great Hall	Break
	10:30	D124/D125	<b>Is it a Gene, and where does it start?</b>
	11:30	D124/D125	<b>BLAST and Starterator</b>
	12:30p	Dining Room	Lunch
	1:15	D124/D125 D113/D115	<b>Working Session: Calling Genes</b>
	3:00	Great Hall	Break
	4:00	D124/D125 D113/D115	<b>Working Session: More Gene Calling</b>
	5:00	D124&D125	<b>Working Session: Gene Call Comparisons</b>
	5:30	Dining Room	Dinner
	6:45	Auditorium	<b>Lab Meeting</b>
	7:00	Auditorium	<b>Phamerator</b>
	8:00	Pilot	<b>Social</b>

Sunday, December 14	Time	Location	Topic
	8:15a	Dining Room	Breakfast
	9:00	Auditorium	<b>Functional Annotation: HHPred and CDD</b>
	10:00	Auditorium	<b>Official Function List and Forums</b>
	10:15	Great Hall	Break
	10:30	D124/D125 D113/D115	<b>Working Session: Calling Genes and Protein Functions</b>
	12:30p	Dining Room	Lunch
	1:15	D124/D125 D113/D115	<b>Working Session: Calling Genes and Protein Functions</b>
	2:00	D124/D125 D113/D115	<b>Working Session: Gene Call Comparisons</b>
	3:00	Great Hall	Break
	4:00	Auditorium	<b>Lab Meeting</b>
	5:30	Dining Room	Dinner
	6:45	Auditorium	<b>Talk</b>
	7:45	Pilot	<b>Social</b>

Monday, December 15	Time	Location	Topic
	8:15a	Dining Room	Breakfast
	9:00	Auditorium	<b>Lab Meeting</b>
	9:30	Auditorium	<b>Special Annotations</b>
	10:15	Great Hall	Break
	10:30	D124/D125 D113/D115	<b>Working Session: Special Annotations</b>
	12:30p	Dining Room	Lunch
	1:15	Auditorium	<b>Tail Assembly Chaperones</b>
	2:00	D124/D125 D113/D115	<b>Working Session: Special Annotations</b>
	3:00	Great Hall	Break
	4:00	D124/D125 D113/D115	<b>Working Session: Collaborative Annotation</b>
	5:30	Dining Room	Dinner
	6:45	Auditorium	<b>Talk</b>
	7:45	Pilot	<b>Social</b>

Tuesday, December 16	Time	Location	Topic
	8-9:00a	Conference Center	<b>Room Checkout Before Breakfast</b>
	8:15	Dining Room	Breakfast
	9:00	Auditorium	<b>Final Annotation Review/Submitting an Annotation/Review to Improve</b>
	10:30	Great Hall	Break
	10:45	TBD	<b>Group Photo</b>
	11:00	Auditorium	<b>Classroom Best Practices Panel Discussion</b>
	12:15p	Auditorium	<b>Closing Remarks</b>
	12:30	Dining Room & Conference Center	<b>Lunch and Adjournment</b>