

<b>Learning Objectives</b>	<p>Participants will be able to:</p> <ul style="list-style-type: none"> <li>• Characterize and investigate mycobacteriophage genomes. This includes the details of gene calling evaluation, functional assignments, and preparing a final product of a submission file that meets QC requirements. This year, we plan to focus on further analyses and experimentation.</li> <li>• Install and use the software for annotation/analyses of mycobacteriophages. The software includes DNA Master, Phamerator, and other web-based tools.</li> <li>• Identify the basic concepts that underpin the bioinformatics of phage biology that is relevant to their students.</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://www.hhmi.org/seawiki/display/WIKINAV/Consed+and+Phamerator+Virtual+Machine+Installation">http://www.hhmi.org/seawiki/display/WIKINAV/Consed+and+Phamerator+Virtual+Machine+Installation</a></p>
----------------	--

Monday   December 8	Time	Location	Topic
	2:00-4:00p	Conference Center	<b>Registration</b> ( <i>Guests may get lunch in the Dining Room between 11:30a-1:30p by showing their registration badge to the cashier</i> )
	4:00	Small Auditorium	<b>Welcome: Via video from Graham Hatfull</b>
	4:30	Small Auditorium	<b>Workshop Overview</b>
	5:30	Dining Room	<i>Dinner</i>
	6:45	Small Auditorium	<b>Genome Overview and Loading a Genome*</b>
	7:30	Small Auditorium	<b>BLASTing the Genome*</b>
		Pilot	<b>Social</b>

Tuesday   December 9	Time	Location	Topic
	7:15a	Dining Room	<i>Breakfast</i>
	8:00	Small Auditorium	<b>Auto-Annotation &amp; Gene Calling Guidelines*</b>
	9:00	Small Auditorium	<b>Add, Delete, and Modify a Gene*</b>
	10:00	Outside Sm. Aud.	<i>Break</i>
	10:15	Small Auditorium	<b>Calling the Genes*</b>
	11:00	Small Auditorium	<b>Choose Start Tools and Considerations*</b>
	12:30p	Dining Room	<i>Lunch</i>
	1:15	Small Auditorium	<b>Informal Recap*</b>
	2:00	D124&D125	<b>Group Exercise: Annotation and Analysis of Genome</b>
	3:00	Great Hall	<i>Break</i>
	3:15	D124&125	<b>Group Exercise: Annotation and Analysis of Genome (continued)</b>
	5:30	Dining Room	<i>Dinner</i>
	6:45	Main Auditorium	<b>A Global Look at Genomes*</b>
	7:00	D124&125	<b>Group Exercise: Annotation and Analysis of Genome (continued)</b>
		Pilot	<b>Social</b>

Wednesday   December 10	Time	Location	Topic
	7:15a	Dining Room	Breakfast
	8:00	Small Auditorium	Assigning Functions*
	9:00	D124&125	Group Exercise: Assigning Functions
	10:15	Outside Sm. Aud.	Break
	10:30	Small Auditorium D124&125	Merge I* Group Exercise: Finding consensus in the merged data
	12:30p	Dining Room	Lunch
	1:15	Small Auditorium D124&125	Merge II* Group Exercise: Finding consensus in the merged data
	3:00	Outside Sm. Aud.	File posted   Break
	3:15	Small Auditorium	Examining Merged Data* Assignment: Construct a List of Discrepancies
	5:30	Dining Room	Dinner
	6:45	Small Auditorium	Phamerator and Exercise*
	Pilot	Social	

Thursday   December 11	Time	Location	Topic
	7:15a	Dining Room	Breakfast
	8:00	Small Auditorium	Inside the Black Box: Assembling and Finishing*
	9:00	Small Auditorium	Resolving Discrepancies in the Merged Data: Several case studies*
	10:15	Great Hall	Break
	10:30	D124&125	Group Exercise: Resolving Discrepancies
	12:30p	Dining Room	Lunch
	1:15	Large Auditorium	Final Overview of the Genome using Comparative Genomics*
	2:00	D124&125	Group Exercise: Comparative Genomics
	3:00	Outside Sm. Aud.	Break
	3:15	Small Auditorium	Post Annotation Analyses & Experiments*
	5:30	Dining Room	Dinner
6:45	Small Auditorium	Graham Hatfull – TBA	
8:00	The Pilot	Informal discussions at the Pilot	

	<b>Time</b>	<b>Location</b>	<b>Topic</b>
<b>Friday   December 12</b>	7-8:00a	<i>Conference Center</i>	<b>Room Checkout</b> ( <i>Participants may store their luggage in the Conference Center</i> )
	7:15	<i>Dining Room</i>	<i>Breakfast</i>
	8:00	<i>Small Auditorium</i>	<b>Ask Graham!*</b>
	9:00	<i>Small Auditorium</i>	<b>Panel: Examples of Successful In Silico Implementation*</b>
	10:30	<i>Outside Sm. Aud.</i>	<i>Break</i>
	10:45	<i>Small Auditorium</i>	<b>Final file formatting requirements and submission for QC</b> <b>Submit to GenBank</b>
	11:45	<i>Small Auditorium</i>	<b>Closing Remarks and Announcements</b>
	12:00p	<i>Small Auditorium</i>	<b>Adjournment</b>   <i>Bagged Lunch (Pick up at Conference Center)</i>

\*Session will be streamed Eastern Standard Time