**Pre-Genomics Workshop Reading and Setup.**

1. **Reading Assignments:**

Please review the following materials in the Phage Bioinformatics Guide. The intent is for you to gain an appreciation of the workflow and how the Guide is organized. As you read the following sections and pages, note that you*do not* need to follow additional links, especially for the various software you will be introduced to during training. Instead, simply know that these software exists and will be used.

Section 1: [Introduction](https://seaphagesbioinformatics.helpdocsonline.com/getting-started) —> read all 4 sections (no need to open links)

Section 2: [Annotation Outline](https://seaphagesbioinformatics.helpdocsonline.com/annotation-outline) —> preview this cover page, then click on several links to appreciate that the Annotation Outline is a useful landing page when annotating. You do not need to learn the contents of this page (yet).

Section 4: [Phage Annotation, Genomics, and Data Interpretation](https://seaphagesbioinformatics.helpdocsonline.com/interpreting-data) —> Review “Genome Annotation Overview” and the accompanying figures in "Decision Trees for Genome Annotation".

1. **Computing Assignments –**

On the first evening of the workshop, you will perform an auto-annotation, which will only work if your DNAMaster is properly configured, which includes setting preferences and checking for updates. It is recommended that you attempt the auto-annotation yourself ahead of the workshop, following the instructions below:

Please complete the following pages for [DNAMaster](https://seaphagesbioinformatics.helpdocsonline.com/dna-master):

* [Setting DNA Master Preferences](https://seaphagesbioinformatics.helpdocsonline.com/dna-master)
* [Checking for DNA Master Updates](https://seaphagesbioinformatics.helpdocsonline.com/dna-master)
* [Importing your FASTA-formatted sequence into DNA Master](https://seaphagesbioinformatics.helpdocsonline.com/dna-master)
* [Saving Your DNA Master File](https://seaphagesbioinformatics.helpdocsonline.com/dna-master)
* [Opening (or Re-opening) a saved DNA Master file](https://seaphagesbioinformatics.helpdocsonline.com/dna-master)
* [Generating a Rough Draft of Your Annotation using Auto-Annotate](https://seaphagesbioinformatics.helpdocsonline.com/dna-master)

Note: Auto-annotation should be performed without using the BLAST function. Once auto-annotated, please go ahead and run BLAST for the entire genome. This can easily take 3 – 6 hours to complete. As such, we recommend starting the BLAST of your auto-annotated in the evening so that it can run overnight. Ensure your computer is not set to “sleep”.

*You will need to download the fasta file for your phage. Here is a link to your phage:*  [Gandalf20](https://phagesdb.org/phages/Gandalf20/)