CONSIDER FOR TALK

2022 SEA Symposium Abstract

Northwestern Connecticut Community Colleges

Winsted CT

Corresponding Faculty Member: Sharon Gusky (sgusky@nwcc.edu)

Genomic Characterization of the Gordonia phage Evaa

Renee Dunbar, Rebecca Giarnese, Jacob Saunders

The Gordonia phage Evaa was annotated by a group of Northwestern Connecticut Community College Students. Gordonia phage Evaa was found to have a length of 61187 bp which code for 85 genes and one tRNA. Perhaps one of the most important genes to
annotate in a tailed phage is the tape measure protein,
which was found at gene 25. This gene is responsible
for dictating the tail length and facilitation of the
phages DNA into the host cell. Other significant genes are Lysins α and β, which break down the hosts cell membrane, and Holin which
acts as a transport for the lysins essentially assisting in
the mediation of cell lysis These genes work in
tandem and are essential for the phages’ survival and
replication.