CONSIDER FOR TALK

8th Annual SEA-PHAGES Symposium Abstract

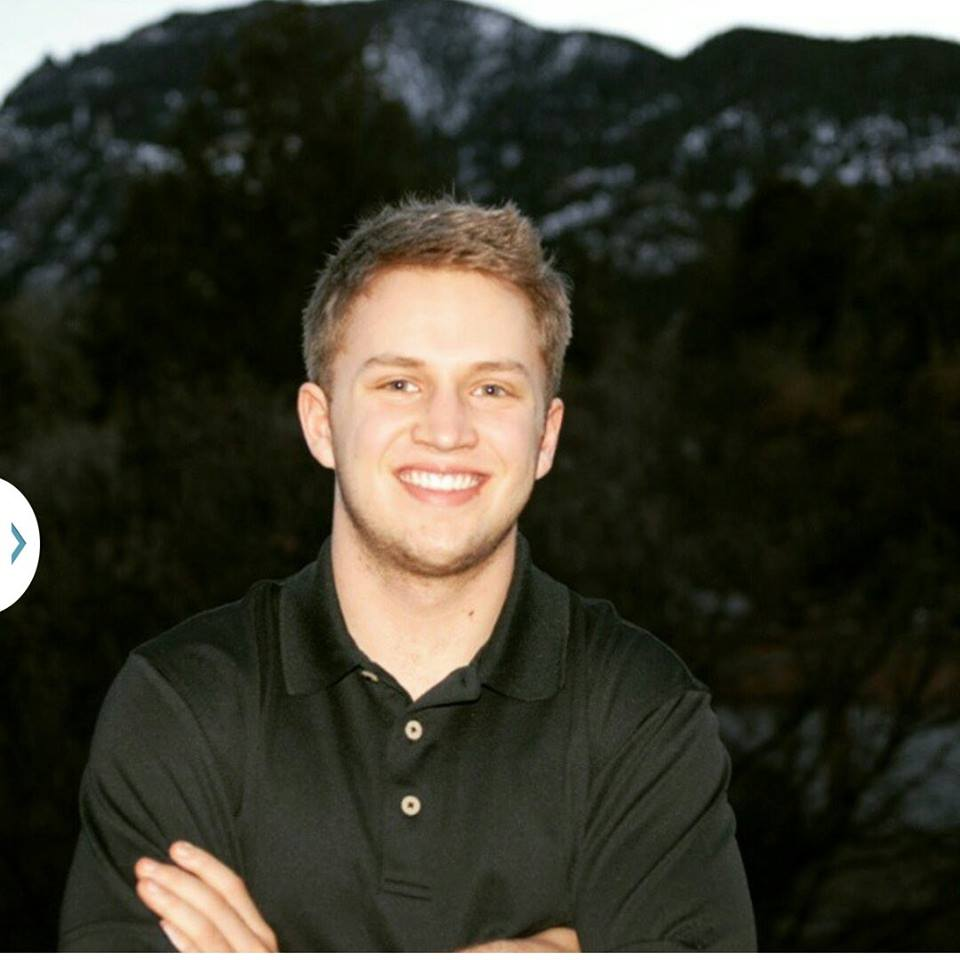
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Genomic Analysis of Mycobacteriophage Tortellini Reveals Significant Genetic Differences from Current P Cluster Phages, Establishing this Phage as the First Member of the P2 Subcluster

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Mycobacteriophage are classified and subdivided into clusters and subclusters based on genetic similarities. Preliminary results indicated Mycobacteriophage Tortellini contained significant genome sequence similarity to phages in the P cluster. However, annotation and analysis of the Tortellini genome revealed the presence of significant genetic differences when compared to other members of the P cluster. These differences supported the creation of a new P subcluster (P2) with one member, Tortellini. We describe the genome differences in detail, focusing on the second half of the genome and its sequence similarity to phages in other clusters.