CONSIDER FOR TALK

2025 SEA Symposium Abstract

Lee University

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The Tale of Two Phages

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Both bacteriophages, ELee24 and Annapurna, were found on the same plate after an enriched isolation from soil collected in a cow pasture. ELee24 had much larger plaques compared to Annapurna’s. Interestingly, ELee24 was identified as a member of the EE cluster, having only 24 genes, while Annapurna ( EF cluster), had 84 genes. While the phages had drastically genome sizes, both ELee24 and Annapurna had the necessary protein functions that all bacteriophages need.. Because of the extensive work that has already been done on phages in the EE cluster, ELee24’s genome annotation has already been submitted for review. In contrast, Annapurna with a much larger genome is still under review by the current SEA-Phage co-hort at Lee University.