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## Genome Annotation of a C1 Mycobacteriophage Isolated from Central Illinois Soil

Catlin Arrington  
*Illinois Wesleyan University*

Elyse Borchik  
*Illinois Wesleyan University*

Ethan Gelke  
*Illinois Wesleyan University*

Ryan Holden  
*Illinois Wesleyan University*

Sam Sorenson  
*Illinois Wesleyan University*

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*See next page for additional authors*

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### **Presenter and Advisor Information**

Catlin Arrington; Elyse Borchik; Ethan Gelke; Ryan Holden; Sam Sorenson; Brenden Wall; Da Wang; Anthony Bohner; Julie Anne Canter; Drew Cullet; Crystal Diaz; Kati Forman; Munia Mustafa; Lauren Awdziejczyk; Stephen Whitfield; David Bollivar, Faculty Advisor; and Loni Walker, Faculty Advisor

Poster Presentation P3

**GENOME ANNOTATION OF A C1 MYCOBACTERIOPHAGE ISOLATED FROM  
CENTRAL ILLINOIS SOIL**

Catlin Arrington, Elyse Borchik, Ethan Gelke, Ryan Holden, Sam Sorenson, Brenden Wall,  
Da Wang, Anthony Bohner, Julie Anne Canter, Drew Cullet, Crystal Diaz, Kati Forman,  
Munia Mustafa, Lauren Awdziejczyk, Stephen Whitfield, and David Bollivar\* and Loni Walker\*

Biology Department, Illinois Wesleyan University

In order to contribute more information on the genomic structure of mycobacteriophage, fifteen distinct phages were isolated from soil samples. The DNA of one phage, Shrimp, was sequenced at the University of Pittsburgh and analyzed with the computer programs DNA Master, HHpred, Phamerator, Glimmer, and GeneMark. These programs were crucial in the characterization process to analyze the coding sequence, gene number, and protein function(s). Through the characterization of Shrimp's 155,714 base pairs and 235 genes, the genome showed a close resemblance to the C1 cluster. However, the functions of many genes within Shrimp's genome have yet to be identified. The complete annotation of the genome will be submitted to the GenBank database.