





# Amelia L. Hoyt, B.Sc.

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## Interests

Genetics, Genomics, Phages, Biocuration

## Work

2021– **Microbiologist**, *Beth Israel Deaconess Medical Center*, Boston, MA.

2019–21 **Research Assistant I**, *Jackson Laboratory*, Farmington, CT, Oh Lab.

1. Performed wet-lab scientific research mainly in culturomics, recovering a diverse range of bacteria from human microbiome samples
2. Used MALDI-TOF, protein extractions, gel electrophoresis, and PCR to identify unknown microbes
3. Extracted DNA and standardized concentrations
4. Handled human samples, made various medias, washed and autoclaved dishes and materials

2018–19 **Student Research Assistant**, *Jackson Laboratory*, Farmington, CT, Oh Lab.

2018–19 **Research Assistant**, *Southern Connecticut State University*, New Haven, CT, Edgington Lab.

1. Isolated and named novel bacteriophage Cumula with host *Microbacterium foliorum*
2. Annotated the genome of bacteriophage Stromboli

## Education

2017–19 **Bachelor of Science**, *Biotechnology*, Southern Connecticut State University.  
Minors in Anthropology, Chemistry, and Math

2009–13 **Diploma**, North Haven High School, North Haven, CT.

## Skills

MALDI-TOF, bacterial culture, cell culture, genome annotation, DNA extraction, gel electrophoresis, PCR, GenElute

## Programming Languages

Python (basic), Jupyter Notebook (basic), Excel + VBA (intermediate), R (basic)

## Research Projects

### **Microbacterium phage Stromboli.**

Annotated genes for the microbacterium phage Stromboli and submitted to GenBank entry [MT024860.1](#).

### **Microbacterium phage Cumula.**

Discovered, isolated, characterized, and named the novel bacteriophage Cumula in host *Microbacterium foliorum*. Submitted to the Acinobacteriophage Database entry [Cumula](#).