Bacteriophage Genomics Summer Internships

Join Bacteriophage Genomics summer internships to explore the genomic structure and function of bacteriophages, focusing on their role in bacterial control, biotechnology, and environmental applications.

Focussed Areas under Bacteriophage Genomics Summer Internship

1. Bacteriophage diversity in summer environments
2. Phage therapy for bacterial infections
3. Phage-host interactions in agricultural systems
4. Metagenomics of bacteriophage populations
5. Genomic analysis of lytic and lysogenic phages
6. Bacteriophages in biocontrol of plant pathogens
7. Phage applications in water treatment
8. Antibiotic resistance genes in bacteriophages
9. Biotechnological applications of bacteriophage enzymes
10. CRISPR systems in bacteriophages
11. Phage therapy for food safety and preservation
12. Phage-mediated gene transfer in bacterial populations
13. Phage bioinformatics and genome annotation
14. Phage roles in environmental microbiomes
15. Bacteriophages in bioremediation processes
16. Synthetic biology using bacteriophage components
17. Bacteriophage applications in biotechnology
18. Phage-bacteria dynamics in marine environments
19. Genomics of bacteriophages in human health
20. Bacteriophage genome editing technologies

Protocols Covered across various focussed areas under Bacteriophage Genomics Summer Internship

1. Bacteriophage isolation and plaque assays
2. Phage DNA extraction and sequencing
3. Bioinformatics analysis of phage genomes
4. CRISPR-mediated phage genome editing
5. Phage therapy testing in bacterial cultures
6. Phage-host interaction assays

7. Metagenomics of phage communities
8. Antibiotic resistance gene profiling in phages
9. Genome annotation of lytic phages
10. Phage-mediated biocontrol protocols

Duration: 5, 10, 15, 20, and 30 Days

Note: Please cross confirm whether internship slots for this field are available before joining.

Click Here for Bacteriophage Genomics Summer Internship Fees

Application Process and Other info