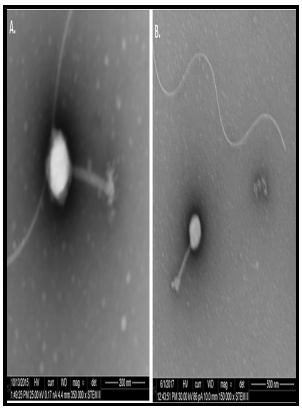
Isolation of novel Erwinia phages and their use in the study of bacterial phytopathogenicity

typescript - Bacteriophage resistance mechanisms



Description: -
-isolation of novel Erwinia phages and their use in the study of bacterial phytopathogenicity
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Notes: Thesis (Ph.D.) - University of Warwick, 1991.
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Tags: #Novel #Virulent #and #Broad

Freshwater viral metagenome reveals novel and functional phage

The 12 homologous ORFs include 3 involved in DNA metabolism, 3 structural proteins, 1 methylase, 1 endolysin, 1 nucleoside triphosphate hydrolase, 1 molecular chaperone and 2 proteins of unknown function. Marshall SJ, White GF 2001 Complete denitration of nitroglycerin by bacteria isolated from a washwater soakaway. A major hallmark of N4-like phages is the use of three different DNA-dependent RNA polymerases during their growth cycles.

Novel Virulent and Broad

In this study, we present the isolation and characterization of a novel bacteriophage named phiLLS, which has shown strong lytic activity against generic and multidrug-resistant Escherichia coli strains.

Bacteriophage Against Plant Diseases

All isolated phages were tested for generalised transduction, a method of molecular genetic analysis so far unavailable to Erwinia carotovora subsp.

Isolation and Characterization of vB_ArS

Alternatively, the two overlapping CDS may produce the subunits of a dimeric lysin, as described for phages CD27L and CTP1L of Clostridium difficile.

Bacteriophage Against Plant Diseases

Conclusions To our knowledge, this study represents the first complete genome sequence and genetic characterization of an Arthrobacter sp. Characteristics of three phages infectious for psychrophilic fishery isolates of Pseudomonas putrefaciens.

The isolation of novel phages and their use in the study of bacterial phytopathogenicity

A phage infection is however a complicated process and a positive spot test, commonly observed clear zones on a bacterial plate infected with phages, may be the result of more than the interactions which give rise to lysis and production of new phage. We joined the two ORFs framing each HNH endonuclease of the studied phages and performed a BLASTn analyses.

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One-step growth curve of phage phiLLS. Proteomic analysis led to the experimental identification of 14 virion proteins, including 9 that were predicted by bioinformatics approaches.

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