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**Viruses | Special Issue : Phage  
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Introduction. Introduced in the early 1900s, 1 phage therapy is the application of bacteria-specific viruses (phages) to combat uncontrolled and undesired bacteria such as those associated with infectious disease. 2 In reviews of phage therapy 3 authors

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commonly list advantages of employing phages as antibacterials (for example, see ref. 4). These lists can be used as talking points of why, in ...

## **Pros and cons of phage therapy**

Bacteriophages and Biofilms

"Bacteriophages (phages) are the viruses of bacteria and biofilms

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represent a frequent niche for bacteria, where they are embedded in extensive extracellular polymeric substances (EPS) and can be structured into complex microcolonies.

## **Bacteriophages And Biofilms Ecology Phage**

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Bacteriophages and Biofilms: Ecology, Phage Therapy, Plaques (Bacteriology Research Developments: Biotechnology in Agriculture, Industry and Medicine) by Stephen T. Abedon (Author) > Visit Amazon's Stephen T. Abedon Page. Find all the books, read about the author, and more. ...



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**Bacteriophages: the good guys on  
the viral block - NBIC**  
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Bacteriophages (phages) are the viruses of bacteria. Along with the conceptually related viruses of domain Archaea (archaeal viruses), phages generally make a living by finding and then infecting either individual cells or instead clumps of cells, the latter as

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making up cellular arrangements,  
microcolonies, and/or biofilms.

## **Abedon (2011) - Phage-Therapy.org**

Phages are actively involved in biofilm formation, in two different ways: as promoting or degrading agents. Phages can be equipped with matrix-degrading enzymes and effectively infect biofilm-

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embedded cells. In this meaning, phages are a natural and helpful weapon against microbial biofilms.

## **Viruses | Special Issue : Bacteriophages and Biofilms**

To the extent that biofilms are physiologically or structurally heterogeneous, with phages exploiting

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particularly relatively newly divided biofilm-surface bacteria, then even effective phage predation of natural biofilms could result in less than complete overall biofilm clearance.

## **Bacteriophage exploitation of bacterial biofilms: phage ...**

Here, we discuss a concept of using

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bacteriophages to biocontrol oral biofilms. 1.1. Biology of bacteriophages. Bacteriophages, or short phages, are viruses that predate prokaryotes. In this review, we focus on tailed, double-stranded DNA phages that make up 96% of all phage isolates. Their taxonomy is as follows.

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**The use of bacteriophages to  
biocontrol oral biofilms...**

Bacteriophages (phages) have been shaping bacterial ecology and evolution for millions of years, for example, by selecting for defence strategies.

Evidence supports that bacterial biofilm formation is one such strategy and that biofilm-mediated protection against

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phage infection depends on maturation  
and composition of the extracellular  
matrix.

## **(PDF) Bacteriophages and Biofilms - ResearchGate**

Bacteriophages and biofilms – ecology,  
phage therapy, plaques by Abedon S.T.,  
Nova Science Publishers 2011 Dr Ron

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Dixon, Associate Professor within the School of Life Sciences at the University of Lincoln.

## **Bacteriophages and Biofilms: Ecology, Phage Therapy ...**

2. Bacteriophage and Their Effects on Biofilms. Bacteriophages (often known simply as phages) are naturally



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occurring viruses that infect bacteria. As such, they are unaffected by antibiotic resistance and (unlike many antibiotics) are able to target bacteria within biofilms . They can either coexist with their host by inserting themselves into the bacterial genome (lysogenic bacteriophages) or destroy them (lytic bacteriophages; the type most suited to

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therapeutic use).  
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**Stephen Abedon | Department of  
Microbiology**

Considered in this chapter is the use of bacterial viruses, a.k.a., bacteriophages or phages, to control or eliminate unwanted bacteria, e.g., as may be found in association with wounds.

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Infected wounds often have a biofilm component, and as a consequence this chapter focuses in part on interactions between bacteriophages and biofilms.

## **Bacteriophages and biofilms : ecology, phage therapy ...**

Bacteriophages can influence and destroy biofilms with the use of 3

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enzymes; enzymes that hydrolyze extracellular polymeric substances in biofilms, enzymes that destroy the capsule of the bacterial cell and enzymes that destroy the cell wall in bacteria.

## **Bacteriophages and biofilms: Ecology, phage therapy ...**

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Bacteriophages (phages) are the viruses of bacteria and biofilms that represent a frequent niche for bacteria. This book presents and discusses research which provides a better understanding of the biology of phages interacting with biofilms.

## **Bacteriophages and Biofilms**

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Bacteriophages (phages) are the viruses of bacteria and biofilms that represent a frequent niche for bacteria, where they are embedded in extensive extracellular polymeric substances (EPS) and can be structured into complex microcolonies. As a consequence of the resulting spatial structure and heterogeneity, phage-bacterial interactions within biofilms can

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be more complicated than those  
between phages and planktonic  
bacteria.

## **Big Impact of the Tiny: Bacteriophage-Bacteria ...**

Bacteriophages and Biofilms: Ecology,  
Phage Therapy, Plaques. Nova Science  
Publishers. Abedon ST & Thomas-

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Abedon C. (2010). Phage Therapy  
Pharmacology. *Curr Pharm Biotechnol.*  
11, 28-47. Hyman P & Abedon ST (2010).  
Bacteriophage Host Range and Bacterial  
Resistance. *Adv Appl Microbiol.* 70,  
217-48. Abedon ST (2009). Phage  
Evolution and Ecology.

## **Bacteriophages and Biofilms:**



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Bacteriophages (phages) are the viruses of bacteria and biofilms that represent a frequent niche for bacteria, where they are embedded in extensive extracellular polymeric substances (EPS) and can...

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Bacteriophage.news**

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Bacteriophages also have a number of properties that make biofilms susceptible to their action. They are known to produce (or to be able to induce) enzymes that degrade the extracellular matrix....

## **Bacteriophages and Biofilms - Archaeal Viruses**

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Abstract: Bacteriophages (phages) are the viruses of bacteria and biofilms represent a frequent niche for bacteria, where they are embedded in extensive extracellular polymeric substances (EPS) and can be structured into complex microcolonies.

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