

## Bacteriophages And Biofilms Ecology Phage Therapy Plaques Bacteriology Research Developments|helveticabi font size 13 format

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Bacteriophages may have a lytic cycle or a lysogenic cycle. With lytic phages such as the T4 phage, bacterial cells are broken open (lysed) and destroyed after immediate replication of the virion. As soon as the cell is destroyed, the phage progeny can find new hosts to infect. Lytic phages are more suitable for phage therapy. Some lytic phages undergo a phenomenon known as lysis inhibition ...

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Bacteriophages (BPs) are viruses that can infect and kill bacteria without any negative effect on human or animal cells. For this reason, it is supposed that they can be used, alone or in combination with antibiotics, to treat bacterial infections. In this narrative review, the advantages and limitations of BPs for use in humans will be discussed.

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Genomics or proteomics are providing us now with powerful tools in phage ecology, but final testing will have to be performed in the environment. Virus, Phage, Prokaryote, Bacteria, Diversity. 1 Introduction 1.1 Historical sketch. Bacterial viruses were discovered twice, by Twort in 1915 and by d'Herelle in 1917 . D'Herelle coined the name 'bacteriophages' for these infectious agents ...

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Author summary Renewed interest in phages as alternative therapeutics to combat multi-drug resistant bacterial infections, highlights the importance of understanding the consequences of phage-bacteria interactions in the context of microbial communities. Although it is well established that phages are highly specific for their host bacterium, there is no clear consensus on whether or not phage ...

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Phage-encoded virulence factors. Virulence factors are bacteria-associated molecules that are required for a bacterium to cause disease while infecting eukaryotic hosts such as humans. A surprisingly large number of virulence factors are encoded by prophage infecting bacterial pathogens, such as cholera toxin, Shiga toxin, and diphtheria toxin. These three examples are a subset of virulence ...

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Bacteria (/ b æ k ? t ??r i ? / ()); common noun bacteria, singular bacterium) are a type of biological cell.They constitute a large domain of prokaryotic microorganisms.Typically a few micrometres in length, bacteria have a number of shapes, ranging from spheres to rods and spirals.Bacteria were among the first life forms to appear on Earth, and are present in most of its habitats.

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The creation of the "Phage group" by M. Delbrück, S. E. Luria, and A. D. Hershey in 1940 at Cold Spring Harbor played a crucial role in the development of molecular biology. In the 1940s, working with Escherichia coli and its viruses, Luria and Delbrück discovered the spontaneous nature of bacterial mutations and Hershey described recombination in bacteriophages and demonstrated with M ...

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Surprisingly, bacteriophages carrying antibiotic r genes have rarely been identified in the environment or in hospital

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isolates of resistant bacteria; however, there is no question about the association of phages with the insertional mechanisms required for the formation of mobile resistance elements and with the functions of chromosomally associated r genes. They are frequently seen as phage ...

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Understanding the community dynamics and chemical ecology at each one could reveal a set of unifying principles as well as location-specific determinants that underlie each system. While this Outlook provides a glimpse into the exciting research and opportunities in the gut microbiota, we hope it also highlights the critical role that chemists and chemical biologists can play in understanding ...

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