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**Name of Journal:** *World Journal of Gastrointestinal Pharmacology and Therapeutics*

**Manuscript NO:** 31187

**Manuscript Type:** Review

**Phage therapy: An alternative to antibiotics in the age of multi-drug resistance**

**Derek M Lin, Britt Koskella, Henry C Lin**

### Abstract

The practice of phage therapy, which uses bacterial viruses (phages) to treat bacterial infections, has been around for almost a century. The decline in antibiotic efficacy as a result of the spread of antibiotic resistance genes has generated renewed interest in revisiting this practice. Conventionally, phage therapy relies on the use of naturally-occurring phages to infect and lyse bacteria at the site of infection. Recent technological advances have allowed for the development of bioengineered phages and the purification of a diverse group of phage lytic proteins called endolysins, both of which hold great promise as antibacterial agents and expand the potential treatment options of

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作者: A Sulakvelidze - 2001 - 被引用次数: 929 - [相关文章](#)

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作者: C Loc-Carrillo - 2011 - 被引用次数: 143 - [相关文章](#)

In reviews of **phage therapy** authors commonly list advantages of employing ... of why, in this **age** of epidemic **antibiotic** resistance, **phage therapy** should not be overlooked. ... Phages consequently can be readily employed to treat **antibiotic-resistant** infections'— such as against **multi-drug-resistance** *Staphylococcus aureus*. ...

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**Antibiotic resistance** is a significant threat to human and animal health by compromising treatment of ...



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作者 : X Wittebole - 2014 - 被引用次数 : 85 - 相关文章

2013年8月13日 - Antibiotic resistance is reaching a crisis situation in some bacterial ... Keywords: sepsis, septic shock, multidrug resistant pathogens, bacteriophage therapy, phage ... The emergence of age of antibiotic chemotherapy with the ...

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Phage therapy: An alternative to antibiotics in the age of multi-drug resistance

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[japi.org/june2003/U-593.pdf](http://japi.org/june2003/U-593.pdf)

Abstract. Bacteriophage therapy is an important alternative to antibiotics in the current era of multidrug resistant pathogens. ... in the present era of multidrug resistant pathogens, we need. National .... age and in patients with mixed infections.

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2 Dec 2015 ... It's thought that half of the people that die from a bacterial infection in Europe each year have got multi-drug resistant bacteria. It is a major ...

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