Special Issue

Bacteriophages and Their Enzymes as Antibacterial Agents

Message from the Guest Editors

Bacteriophages are viruses that are able to lyse and kill bacteria. Phage therapy, or more broadly, phage-mediated biocontrol, is the use of phages or their molecular parts as antibacterial agents. Due to the current antibiotic resistance crisis and increasing problems with the treatment of bacterial infections, there is growing interest in phage use as an antibacterial agent. Here, we welcome articles emphasizing phage therapy as well as the use of phage-derived enzymes as antibacterial agents along with related issues. Related issues can include but are not limited to: phage delivery, phage therapy pharmacokinetics and pharmacodynamics (PK/PD), phage immunology, phage cocktail development, phage engineering, the noted phage-mediated biological control (of bacterial pathogens or other nuisance bacteria), phage–biofilm interactions, development of phage-based enzybiotics, phage co-treatments and interactions with other antibacterial agents such as antibiotics, aspects of phage–phage and phage–bacterium interactions that are important for therapeutic success, and in vitro, ex vivo, in silico, and in vivo models of phage therapy.

Guest Editors

Prof. Dr. Stephen T. Abedon

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Dr. Razieh Kebriaei

Dr. Aleksandra Petrovic Fabijan

Deadline for manuscript submissions

closed (31 December 2023)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/147314

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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