

Special Issue

Bacteriophages against Poultry-Associated Pathogens

Message from the Guest Editors

Poultry production is essential in meeting the rising global demand for animal-derived protein. As the industry has scaled up, establishing large-scale poultry production systems has become prevalent. These systems have concurrently heightened the necessity for robust and effective anti-pathogenic bacteria management strategies. Phages can be used to prevent and treat poultry bacterial diseases and could be effective in controlling zoonotic pathogens.

Bacteriophages and phage-based products could be directly added to poultry water and feed supplies. Encapsulation techniques can protect phages from environmental factors that might influence their efficacy, such as stomach acids and digestive enzymes. Phage-based products can be integrated with existing biosecurity and hygiene practices to enhance pathogen control. The use of bacteriophages and phage-based products as water and feed additives, and in encapsulated forms, presents a promising strategy for enhancing the overall health of poultry. The goal of this Special Issue is to collect original articles and reviews that highlight the characterization and application of phages in poultry.

Guest Editors

Dr. Marta Kuźmińska-Bajor

Department of Biotechnology and Food Microbiology, Wrocław University of Environmental and Life Sciences, Chelmońskiego Street 37, 51-630 Wrocław, Poland

Prof. Dr. Monika Michalczuk

Department of Animal Breeding, Institute of Animal Sciences, Warsaw University of Life Sciences, Ciszewskiego 8, 02-786 Warsaw, Poland

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4052 Basel, Switzerland
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Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental
Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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