



International Alliance for  
Biological Standardization

## Avoiding Antimicrobial Resistance: Veterinary Use of Phages for Prevention, Therapy and Control of Bacterial Infections

November 19-20, 2024  
Virtual Meeting

### **Phages and phage proteins in bacterial infection treatment**

Bacteriophages (phages) are viruses that specifically target bacteria. Phage therapy involves using phages to treat bacterial infections. These viruses infect and replicate within bacterial cells, ultimately leading to bacterial death. Phages have been studied extensively for their potential in human and veterinary therapy. Additionally, phage-derived proteins, particularly endolysins and depolymerases, are actively investigated as alternative or supportive antibacterials. Endolysins rapidly degrade the bacterial cell wall, while depolymerases target specific components of the bacterial surface such as capsule or LPS. In this talk, the basics of phages, endolysins and depolymerases will be explained with practical cases on their use for therapy in mastitis and pyoderma.