



## Application of Antibiotic Alternatives in the Poultry Industry

Collection Editor:

**Prof. Dr. Kyung-Woo Lee**

Department of Animal Science  
and Technology, Konkuk  
University, Seoul 05029, Republic  
of Korea

### Message from the Collection Editor

Dear Colleagues,

In-feed antibiotics have been used to enhance performance, improve gut health, reduce sub-clinical infection, anti-inflammatory, control diseases, and support intestinal health in chickens by inhibiting proliferation of pathogenic bacteria. Nevertheless, due to concerns around bacterial resistance and residues in animal products, the use of in-feed antibiotics has been banned, prompting the global poultry industry to look for antibiotic alternatives to enhance the health, welfare, and performance of chickens. Indeed, scientists have proposed various promising alternatives to animal production to mimic antibiotic growth promoters, and many have been successfully applied in the poultry industry. These include prebiotics, probiotics, organic acids, essential oils, exogenous enzyme, hyper-immune IgY antibodies, bacteriophages, antimicrobial peptides, and phytogetic feed additives, which are now being used commercially.

This Topical Collection aims to gather original research articles including reviews investigating conventional and novel feed additives to improve the welfare and health of chickens.





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### Prof. Dr. Clive J. C. Phillips

1. Curtin University Sustainable Policy (CUSP) Institute, Curtin University, Kent St., Bentley, Western Australia 6102, Australia  
2. Former Foundation Professor of Animal Welfare, University of Queensland and Foundation Director, Centre for Animal Welfare and Ethics, University of Queensland, Brisbane, Australia

## Message from the Editor-in-Chief

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*Animals* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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