

## Special Issue

# The Role of Gut Microbiome and Nutrition in Poultry Health

### Message from the Guest Editor

Chicken diets are formulated to provide the animal with adequate nutrients to keep animal performance and health status. They are a source of energy, proteins, vitamins, amino acids and minerals. Ingestion of diets with imbalanced nutrients supplementation may lead to imbalanced gut microbiome, animal disease and inefficient use of natural resources. The chicken gut microbiome has an important role in nutrient digestion, pathogen inhibition, endocrine activity, immune system regulation and gut epithelium nourishment. Interactions between microorganisms are important for gut homeostasis and to promote the development of the intestinal mucus layer and host metabolism and have an influence on animal physiology and health. Optimized nutrition has a positive impact on gut microbiome diversity. The present Special Issue aims to combine in one publication the most recent advances in the role of gut microbiome and nutrition in poultry health. We invite you to contribute with research papers, literature reviews, and case reports.

### Guest Editor

Prof. Dr. Amélia Camarinha-Silva  
Institute of Animal Science, University of Hohenheim, 70599 Stuttgart, Germany

### Deadline for manuscript submissions

closed (31 December 2021)



## Animals

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### Message from the Editor-in-Chief

*Animals* is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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### Editor-in-Chief

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