

## Special Issue

# Microbiome-Derived Metabolites in Animal Nutrition, Health and Disease

### Message from the Guest Editors

The gut microbiome is an exciting and quickly evolving field of study. Indeed, the microbiome is a complex, functional organ that provides nutrients vital to the health of its host. Microbiome-derived metabolites can also influence biological functions beyond the gastrointestinal tract. They help preserve gut homeostasis by strengthening the gut-blood barrier, modulate inflammatory responses, and even affect neurologic functions through the gut-brain axis. Therefore, investigating the impact of diet and diseases in the production of those metabolites can have a significant impact on how we understand health promotion and pathogenesis, and may open the doors to new therapeutic targets. Original manuscripts that investigate the in vivo production of microbiome-derived metabolites are invited for this Special Issue. Topics of special interest include how diets, nutrition, or diseases affect the production of microbiome-derived metabolites, and articles that incorporate dataset integration to identify potential microbial sources for those metabolites are especially welcome.

### Guest Editors

Dr. Emma Bermingham

Food & Bio-Based Products, AgResearch Ltd, Palmerston North 4442, New Zealand

Dr. Rachel Pilla

Gastrointestinal Laboratory, Department of Small Animal Clinical Sciences, Texas A&M University, College Station, TX 77843, USA

### Deadline for manuscript submissions

closed (30 November 2022)



## Animals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/si/68873](https://mdpi.com/si/68873)

*Animals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[animals@mdpi.com](mailto:animals@mdpi.com)

[mdpi.com/journal/  
animals](https://mdpi.com/journal/animals)





# Animals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/journal/  
animals](https://mdpi.com/journal/animals)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Clive J. C. Phillips

1. Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Kreutzwaldi 1, 51014 Tartu, Estonia
2. Curtin University Sustainability Policy (CUSP) Institute, Kent St., Bentley 6102, Australia

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PubAg, AGRIS, Animal Science Database, CAB Abstracts, and other databases.

#### Journal Rank:

JCR - Q1 (Veterinary Sciences) / CiteScore - Q1 (General Veterinary)