



animals



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Microbiome-Derived Metabolites in Animal Nutrition, Health and Disease

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Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editors

Dear Colleagues,

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.



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Special Issue



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Editor-in-Chief

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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

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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