

Special Issue

Metabolomics Approaches to Nutrition, Intestine and Farm Animal

Message from the Guest Editors

Farm animal industries have experienced explosive growth in recent decades. This effectively alleviates the protein shortage caused by the increasing population size. Currently, supplementing the diet with nutrients such as probiotics, prebiotics, and traditional Chinese medicine has been shown to enhance the growth, gut microbiota, and metabolism of animals. As biochemical converters, intestine- and gut-residing microorganisms could convert the complicated chemical space presented by the diet and host nutrients in the metabolite environment. These metabolites, such as antimicrobial peptides, vitamins, short-chain fatty acids, and enzymes, exert beneficial effects on the host through multiple complex mechanisms. Utilizing metabolomics methods allows for detecting changes in metabolites in liver, kidney, and intestine of farmed animals, enabling the evaluation of their health status. This Special Issue will investigate the impact of nutrients, including probiotics, prebiotics, and Chinese medicine additives, on the metabolism of farmed animals. By analyzing the alterations in metabolites of farm animals, the regulatory effects of these nutrients on their health will be examined.

Guest Editors

Dr. Shu-cheng Huang

Dr. Lihong Zhang

Dr. Aoyun Li

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Metabolites
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metabolites@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

Dr. Amedeo Lonardo

Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

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