

Special Issue

Current Insights and Future Perspectives of the Bioactive Compounds from Micro and Macroalgae for Animal Nutrition

Message from the Guest Editors

The livestock industry is increasingly challenged by the growing threat of antimicrobial resistance, driven by the misuse of antimicrobial agents in production systems. This has led to the implementation of strict regulatory measures and highlighted the need for alternative functional nutritional strategies. These alternatives involve the use of bioactive natural products and extracts, which can enhance animal health and disease prevention. Among these, micro- and macroalgae represent valuable resources due to their rich profiles of bioactive compounds with antimicrobial, anti-inflammatory, antioxidant, and immunomodulatory properties. This Special Issue will present a comprehensive overview of the current insights and future perspectives on the use of bioactive compounds derived from micro- and macroalgae for animal nutrition capable of improving animal health, reducing reliance on antibiotics, and supporting more sustainable livestock production systems. Contributions will focus on research that explores the efficacy, mechanisms of action, and practical applications of algae and their bioactive compounds for preventing animal infections and promoting animal well-being.

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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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