

Special Issue

Lipid-Based Nanoparticles for Sustainable Aquaculture

Message from the Guest Editors

Lipid-based nanoparticles are commonly used in the pharmaceutical, food, and cosmetic industries to enhance the delivery of active ingredients, improving drug solubility and absorption. They are particularly beneficial for therapeutic applications in aquaculture, addressing the challenges of delivering plant extracts and bioactive compounds, which have significant therapeutic potential but poor solubility and stability in the gastrointestinal tract. Innovative nanodelivery systems such as nanomicelles, nanoliposomes, nanoemulsions, and solid lipid nanoparticles have been developed to encapsulate and protect these compounds, enhancing their absorption. These advanced delivery systems offer a promising solution for improving drug efficacy, growth, intestinal health, and disease resistance in aquaculture species. This Special Issue explores these drug delivery mechanisms in aquaculture.

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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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