Nanotechnology in Animal Science

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Message from the Collection Editors

Dear Colleagues,

Recently, the nanotechnology revolution has pervaded all fields related to animal science; however, its application in animal medicine and production is still scarce. Different nanoparticles and nanoparticles-based systems have been developed for specific purposes, such as rapid and robust disease diagnosis and treatment, drug delivery systems, animal nutrition, reproduction management, and assisted reproductive techniques. It can also provide new tools for studying molecular and cellular biology and animal genetics. The differences in nanoparticle preparation protocols, physiochemical properties, and applications make this branch of science worthy of study, aiming to better understand the benefits, limitations, and hazards of this technology when is used in the field of animal science.

In this Special Issue, we invite original research papers and reviews or studies addressing nanotechnology applications in the fields of animal physiology, nutrition, reproduction, biotechnology, and health/disease, as well as issues related to the hazards and toxicity of nanomaterials.

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Topical Collection

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Message from the Editor-in-Chief

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