Special Issue

Applications of Nanotechnology in Veterinary Drug Delivery

Message from the Guest Editors

Nanotechnology offers promising solutions for overcoming key challenges in veterinary pharmacology, such as improving drug bioavailability, enabling targeted and controlled drug release, and minimizing side effects. Additionally, nanocarriers can enhance the solubility of poorly water-soluble drugs, ensuring more effective treatments across different species. Research on novel nano-based delivery systems, including liposomes, polymeric nanoparticles, and lipid-based carriers, is essential for advancing veterinary therapeutics.

As veterinary nanotechnology is still in its early stages, we encourage the submission of research on the synthesis, characterization, and application of nanotechnology-based drugs in veterinary medicine, while also emphasizing studies on safety, toxicity, environmental impact, cost-effective production, large-scale manufacturing, and regulatory considerations, all from a One Health perspective.

Guest Editors

Prof. Dr. Ildikó Bácskay

Dr. Constantin Cerbu

Dr. Carla Martins Lopes

Dr. Emilia Trif

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

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