



Curcumin in Biomedical Applications

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Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editors

Curcumin has antioxidant, antimicrobial, anti-inflammatory, and neuroprotective effects on human and animal health. However, curcumin has some limitations, such as poor water solubility and an unstable chemical structure, rapid metabolism but poor absorption in the body, as well as differing utilization and bioavailability depending on the species and sex of the organism. In this regard, curcumin in the form of a nanoparticle is a widely reported form for enhancing the bioavailability and solubility of lipophilic curcumin. In recent years, some studies have shown the beneficial effects of nanocurcumin over native curcumin in terms of quantity and efficacy. It is also important to know how effectively nanocurcumin can work in biological systems based on pharmacokinetic and pharmacodynamic tools. For this, different types of carrier vehicles such as lipid nanoparticles and polymeric nanoparticles can be used to increase the bioavailability of curcumin. The utilization of novel formulations of curcumin in medical and veterinary applications may improve the health status of humans as well as the sustainable production of farm animals.





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Message from the Editor-in-Chief

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