



Curcumin in Biomedical Applications, 2nd Edition

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Message from the Guest Editors

Dear Colleagues,

Curcumin is used in various biomedical applications. Curcumin has antioxidant, antimicrobial, anti-inflammatory, and neuroprotective effects on human and animal health; it has several limitations, including 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 has been widely reported to enhance the bioavailability and solubility of lipophilic curcumin. In recent years, several 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.





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Message from the Editor-in-Chief

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