

Special Issue

Nanoparticle-Based Drug Formulation for Enhancing Nose-to-Brain Delivery

Message from the Guest Editors

Nanoparticle-based drug formulations offer a novel and promising approach for direct nose-to-brain delivery, bypassing the blood-brain barrier (BBB), which is a significant obstacle in treating central nervous system (CNS) disorders. This non-invasive method allows for targeted delivery of therapeutics, reducing systemic side effects and improving drug bioavailability in the brain. With advancements in nanotechnology, nanoparticles can be tailored to enhance the absorption, stability, and controlled release of drugs. This Special Issue aims to explore the latest innovations, challenges, and clinical applications of nanoparticles in nose-to-brain drug delivery, highlighting its potential for treating neurodegenerative diseases, brain tumors, and psychiatric disorders.

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