

Special Issue

Multifunctional Drug Delivery Systems

Message from the Guest Editor

Multifunctional drug delivery systems (MDDSs) represent a cutting-edge approach in modern therapeutics, designed to enhance the precision, efficacy, and safety of drug administration. These advanced systems integrate multiple functionalities, such as targeted delivery, controlled release, utilizing biomaterials to form carrier systems with natural immune-modulating effects, and stimuli-responsive behavior into a single platform, overcoming the limitations of conventional drug delivery methods. Leveraging nanotechnology, functional biomaterials, and smart polymers (e.g., pH-sensitive hydrogels and temperature-responsive polymers) ensures drug release at disease sites. MDDSs can improve drug bioavailability, reduce systemic toxicity, and enable the real-time monitoring of therapeutic responses.

Guest Editor

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