

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

Dr. Guanyu Chen

School of Pharmaceutical Sciences (Shenzhen), Shenzhen Campus of Sun Yat-sen University, Shenzhen 518107, China

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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