



Nano-Based Drug Delivery and Drug Discovery

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Nanotechnology involves the manipulation and utilization of materials, devices, and systems at the nanometer scale. This rapidly evolving field presents numerous opportunities and a wide array of applications across engineering, medicine, and life sciences. Nanotechnology shows promise as the preferred platform for drug delivery when addressing the challenges of conventional medications used in the treatment and management of various diseases and developing innovative treatment and diagnostic approaches.

Potential topics include, but are not limited to, the following:

- Drug targeting and release (nanoparticles functionalization and optimization, and stimuli-responsive targeting and releasing).
- Multiple drug administration (multifunctional nanoparticles, combination nanomedicines, personalized nanomedicine, theragnostic nanoparticles, and sequential drug release).
- Nanocarriers in drug delivery (design and optimization of nanocarriers, and the role of nanocarriers in drug delivery).
- Smart drug delivery system and its clinical potential.
- Applications of nano-based systems for drug delivery.





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Message from the Editor-in-Chief

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