

Special Issue

Advances in Nanoemulsion for Drug Delivery

Message from the Guest Editors

Nanoemulsions are kinetically stable, isotropic dispersions of oil and water stabilized by surfactants, typically with droplet sizes of 20–200 nm. Nanoemulsions have been engineered as multifunctional platforms for diagnostic and theranostic applications, advancing precision medicine. Despite significant progress in formulation strategies, nanoemulsion-based delivery systems still face challenges in stability, scalable manufacturing, efficient drug loading, controlled release concerns related to immunogenicity and toxicity.

This Special Issue aims to showcase recent cutting-edge research and technologies. We invite original research articles and reviews that deepen our understanding and address translational challenges and clinical gaps, with particular topics of interest including (but not limited to):

- Formulation technologies for nanoemulsions,
- Nano-bio interactions, including cellular uptake, biodistribution, and immune response

- Targeted delivery of small molecules, peptides, proteins, and nucleic acids

- Nanoemulsion-based imaging and theranostic applications.

- Emerging applications in oncology, infectious diseases, pulmonary diseases, and beyond

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