

Special Issue

Nanoemulsions for Pharmaceutical and Biomedical Applications

Message from the Guest Editor

Nanoemulsions represent a promising class of colloidal carriers with broad potential in pharmaceutical and biomedical applications. Their nanoscale droplet size, high kinetic stability, and tunable interfacial properties enable the solubilization of poorly water-soluble compounds, protect sensitive bioactives from degradation, and provide opportunities for controlled and targeted delivery. Furthermore, their versatility across oral, parenteral, transdermal, ocular, nasal, and pulmonary routes underscores their relevance in translational medicine. We particularly welcome contributions that address innovative formulation strategies (high-energy and low-energy methods), mechanistic insights into stability and destabilization phenomena, surface functionalization for targeted delivery, and evaluation of biocompatibility, pharmacokinetics, biodistribution, and therapeutic outcomes in preclinical or clinical models. Studies focused on cutting-edge therapeutic applications such as oncology, vaccination, antimicrobial therapy, gene delivery, and theranostics are especially encouraged. Both original research articles and reviews are welcome.

Guest Editor

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