

Special Issue

Potential of Nano/Microemulsions for Drugs and Phytochemicals Delivery

Message from the Guest Editors

Nanoemulsions consist of nanoscale oil/water dispersions stabilized by an appropriate surfactant system in which the drug is incorporated into the oil core and/or adsorbed at the interface. They emerged from the parenteral emulsions due to their biocompatibility, stability, ability to reduce the toxicity of cytotoxic drugs, and ability to protect drugs from degradation.

Nanoemulsions can be prepared by simple and easy to scale up techniques that allow solubilizing high quantities of hydrophobic compounds. With specific excipients, such as surfactants and polymers, physicochemical properties are improved providing gains in mucoadhesiveness, permeability, and interaction with biological membranes. In this context, the advantages of these relatively simple colloidal systems have expanded their use from the parenteral to other administration routes, such as oral, transdermal, ocular, and nasal. Taking into consideration the advantages of nanoemulsions, for this Special Issue, original research and review articles addressing recent advances of nanoemulsions formulations for drugs and phytochemicals delivery by different routes of administration are welcomed.

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Deadline for manuscript submissions

closed (30 April 2023)



Pharmaceutics

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Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



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