

Special Issue

Formulation Optimization and Delivery Strategies for Self-Nanoemulsions

Message from the Guest Editors

A significant challenge in drug formulation in the pharmaceutical industry is poor aqueous solubility. The concept of self-emulsifying drug delivery systems was established during the 1960s when compounds of poor aqueous solubility were combined into mixtures with lipophilic and hydrophilic excipients to enhance their solubility. However, these thermodynamically unstable systems were only indicated in 1985 as the first tangible solution for advancing lipophilic drug delivery, and consequently bioavailability, via the oral route. This Special Issue is a salute to self-nanoemulsion research, embracing both fundamental and applied facets that support the present diversity of emulsions in pharmaceutical sciences and technology. Research areas may include, but are not limited to, the following:

- Recent advances in the creation of novel self-nanoemulsion systems;
- Self-nanoemulsion development and formulation optimization;
- Improved quality and functionality;
- Specialized excipients for solubilization and stabilization;
- Characterization and stability control;
- Drug release and bioavailability.

Guest Editors

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