

Tentative Outline

Special Issue for Recent Patents on Drug Delivery & Formulation

Guest Editor(s):

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Thematic Title: Methods to Enhance Aqueous Drug Solubility

Aims & Scope:

Unless a drug is delivered to its target area at a rate and concentration that minimizes side effects and maximizes therapeutic effects, the drug is not beneficial to the patient and though potentially useful may be discarded. High throughput screening techniques advents the discovery of biologically active molecule at a rapid pace. The new chemical entities are made potent and hence are lipophilic or have poor aqueous solubility. As most new chemical entities are water insoluble lipophilic compounds or BCS class II or even class IV compounds, so it can be quite challenging for a formulation scientist to develop usable pharmaceutical products from such compounds. This edition will deal with various methods used to increase the solubility of the drug which may increase the bioavailability of the drugs.

Keywords: Solubility enhancement, Multicomponent inclusion complexes, Solid dispersions, Drug delivery, Nanotechnology

Subtopics:

Potential topics include, but are not limited to:

1. Multicomponent inclusion complexes for enhancement of drug solubility.
2. Co-Crystallization a novel technique to increase aqueous solubility.
3. Recent advances in solid dispersions to enhance the bioavailability of drugs.
4. Advances in hydrotropy for enhancement of drug solubility.
5. The impact of surface active agents on drug solubility.

6. Application of nanotechnology to increase drug solubility.

Schedule:

Manuscript Submission deadline: 15th February, 2020

Peer Review Due: 10th March, 2020

Revision Due: 10th April, 2020

Notification of acceptance by the Guest Editor: 30th April, 2020

Final manuscripts due: 30th April, 2020