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Novel Formulation Strategies for Enhancing Dissolution and/or Oral Bioavailability

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closed (15 January 2019)

Message from the Guest Editors

Dear Colleagues,

Poor oral bioavailability has become a major challenge in drug development due to both poor water-solubility and poor permeability across intestinal biomembranes. Despite significant efforts to optimize drug leads, about 40% of currently marketed drugs and 70% of drug candidates are poorly water-soluble. To enhance oral bioavailability, it is a prerequisite to improve the dissolution rate in the gastrointestinal tract. For BCS II (poor solubility, high permeability) drugs, enhancement of dissolution is workable, whereas for BCS IV (poor solubility, poor permeability), enhancement of both dissolution and permeability is highly demanded. Various formulation strategies have been employed in the past to enhance the dissolution and oral absorption, such as solid dispersion, inclusion complexation, nanosizing, co-crystallization and lipid-based delivery systems.

This Special Issue serves as a forum to bring together prominent scientists from all around the world. We invite review/original articles on all aspects of “Novel Formulation Strategies for Enhancing Dissolution and/or Oral Bioavailability”.

Prof. Wei Wu
Assoc. Prof. Yi Lu
Assoc. Prof. Jianping Qi

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Message from the Editor-in-Chief

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