

Special Issue

Improving the Bioavailability and Solubility of Pharmaceutical Formulations

Message from the Guest Editors

In modern pharmacotherapy, there is an increasing demand to develop new pharmaceutical forms that can be safely administered with adequate bioavailability and patient compliance in order to achieve successful therapeutic responses. Bioavailability is essential in the development of new drugs and formulations. More effective and efficient active ingredients can be designed by understanding the factors that affect bioavailability, such as solubility, chemical stability, and pharmaceutical forms. This leads to innovative drugs with higher bioavailability and a better therapeutic profile. In order to reach the site of action and achieve the required pharmacological effect, drugs have to face biological membranes, regardless of the route of administration. Overall, many methods and innovative dosage forms have been developed in the last decade to overcome these challenges.

This Special Issue aims to highlight the key aspects of recent techniques and methods used to improve the bioavailability of active pharmaceutical ingredients, as well as enhance the solubility and dissolution of poorly soluble pharmacons.

Guest Editors

Dr. Zoltan Ujhelyi

Dr. Dóra Kósa

Dr. Ágota Pető

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy,
Rutgers University, Piscataway, NJ 08854, USA

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