



Advances in Improving Drug Dissolution, Solubility, and Bioavailability

Guest Editor:

Dr. Maciej Przybytek

Department of Physical
Chemistry, Faculty of Pharmacy,
Collegium Medicum of
Bydgoszcz, Nicolaus Copernicus
University in Toruń, Kurpińskiego
5, 85-950 Bydgoszcz, Poland

Deadline for manuscript
submissions:

closed (31 January 2022)

Message from the Guest Editor

In recent years, many studies have focused on how to improve drug delivery and bioavailability. The increased interest in this field is associated with the development of various disciplines such as nanotechnology, crystal engineering, materials engineering, polymer science, and even 3D printing technology. Poor bioavailability of pharmaceuticals is often related to their low solubility or low dissolution rate. Overcoming this problem requires the introduction of significant structural changes in pharmaceutically active ingredients. Another important problem affecting poor drug bioavailability is their low cell membrane permeability. In this case, various types of drug carriers can be helpful, including those prepared using nanotechnological techniques. In addition, in many cases it is necessary to achieve controlled drug release, which involves reaching its optimal bioavailability.

The purpose of the Special Issue “Advances in Improving Drug Dissolution, Solubility, and Bioavailability” is to present the latest research on the improvement of drug bioavailability, including all dosage forms and the results of modifying important drug physicochemical properties.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)