



## Recent Progress in Formulation Approaches for Improving the Solubility and Bioavailability of Poorly Soluble Drugs

Guest Editors:

**Prof. Dr. Kyriakos Kachrimanis**

Faculty of Pharmacy, Aristotle  
University of Thessaloniki,  
University Campus, 54124  
Thessaloniki, Greece

**Dr. Djordje Medarevic**

Department of Pharmaceutical  
Technology and Cosmetology,  
Faculty of Pharmacy, University  
of Belgrade, 11221 Belgrade,  
Serbia

Deadline for manuscript  
submissions:

**closed (30 November 2022)**

### Message from the Guest Editors

Dear Colleague,

The rise in the number of poorly soluble drugs has forced the pharmaceutical industry towards the development of formulation approaches for improving the solubility and bioavailability of these drugs. A huge number of potential drugs with proved pharmacological activity did not reach market due to the inherent limitations of preparation techniques, poor flowability and compressibility behavior of the obtained product, stability issues, etc. Significant progress has been made during the last several years, including the development of novel preparation techniques; the application of formulation approaches which enable higher drug loading as well as the introduction of molecular modelling and simulation tools.

Papers focused on novel findings in formulation approaches for improving solubility and bioavailability of poorly soluble drugs are welcome in this Special issue. Submitted papers should address aspects of process optimization, downstream formulation processing into dosage forms, and the evaluation of bioavailability improvement through in vivo animal studies or in silico PBPK modelling, etc.

Prof. Kyriakos Kachrimanis

Dr. Djordje Medarevic

*Guest Editors*





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics,  
Ernest Mario School of  
Pharmacy, Rutgers University,  
Piscataway, NJ 08854, USA

## Message from the Editor-in-Chief

*Pharmaceutics* (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceutics and biopharmaceutics. The scientific community, the wider community and the general public have unlimited and free access to the content as soon as a paper is published; this open access to your research ensures your findings are shared with the widest possible audience. Please consider publishing your impressive work in this high quality journal. We would be pleased to welcome you as one of our authors.

## 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), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q1 (*Pharmaceutical Science*)

## Contact Us

*Pharmaceutics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/pharmaceutics](http://mdpi.com/journal/pharmaceutics)  
[pharmaceutics@mdpi.com](mailto:pharmaceutics@mdpi.com)  
X@MDPIpharma