



Plant Metabolites in Improving Drug's Oral Bioavailability

Guest Editor:

Dr. Mikhail V. Khvostov

Laboratory of Pharmacological
Researches, N.N. Vorozhtsov
Novosibirsk Institute of Organic
Chemistry (NIOCH SB RAS),
Novosibirsk 630090, Russia

Deadline for manuscript
submissions:

closed (31 July 2021)

Message from the Guest Editor

It is well-known that one of the most famous and convenient routes of drug introduction into the human body is oral administration. Nevertheless, this route is the most challenging and complex one, as it requires an opposite property such as water and lipid solubility in one chemical molecule for the drug to be successful. Of course, it is extremely hard for this to be applied in practice since most effective drugs are lipophilic compounds. This is usually the reason for their low bioavailability, together with other impacts, such as presystemic and first-pass metabolism. To overcome this problem, different approaches may be applied. One of them is the usage of different plant metabolites that can form supramolecular systems with drugs and increase their water solubility and oral bioavailability. In contrast to inert chemical carriers which are used mainly to improve water dissolution, such metabolites can additionally act directly on the intestinal epithelium and increase bioavailability via several mechanisms. The aim of this Special Issue is to highlight recent advances in this field, including in vivo and in vitro research.





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

mdpi.com/journal/pharmaceutics
pharmaceutics@mdpi.com
X@MDPIpharma