



Clinical Studies on Bioavailability, Biotransformation, Biokinetics and Bioeffects of Phytochemicals

Guest Editor:

Prof. Dr. Marcello Iriti

Department of Biomedical,
Surgical and Dental Sciences,
Università degli Studi di Milano,
20133 Milan, Italy

Deadline for manuscript
submissions:

closed (20 June 2022)

Message from the Guest Editor

Dear Colleagues,

The health-promoting effects of phytochemicals strictly depend on their oral bioavailability, which, in turn, relies on i) the individual biotransformation systems; ii) the chemical structure and properties of each compound; and iii) the complexity of the plant matrix consisting of seeds, leaves, and so on. After intake, bioactive compounds have to be absorbed, distributed, and metabolized before reaching the target tissues and cells; finally, the metabolites of native compounds are excreted in urine and feces, mainly as water-soluble conjugates. The gastrointestinal tract, the systemic circulation, and the urinary system are involved in these complex and coordinated biotransformation processes including enterohepatic circulation, and Phase I and Phase II metabolisms in enterocytes and hepatocytes. Finally, phytochemicals not absorbed in the small intestine reach the large intestine where they are biotransformed by the colonic microbiota. Plant metabolites are recognized as xenobiotics by the human organism, and therefore, they are extensively metabolized.





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Emmanuel Andrès

Internal Medicine Department,
University Hospital Strasbourg,
67000 Strasbourg, France

Prof. Dr. Kent Doi

Department of Emergency and
Critical Care Medicine, University
of Tokyo, Tokyo 113-8655, Japan

Message from the Editorial Board

There has been an explosion of gene and target based research and therapeutics in the multitude of fields that compose clinical medicine. The *Journal of Clinical Medicine's* (JCM) staff and editorial board are dedicated to providing cutting edge, timely, and peer-reviewed articles covering the diverse subspecialties of clinical medicine. The journal publishes concise, innovative, and exciting research articles as well as clinically significant articles and reviews that are pertinent to the myriad of disciplines within medicine. The articles published are relevant to both primary care physicians and specialists. The journal's full-texts are archived in PubMed Central and indexed in PubMed. Please consider submitting your manuscripts for publication to our journal and check us out on-line!

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, CAPus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Medicine, General & Internal*) / CiteScore - Q1 (*General Medicine*)

Contact Us

Journal of Clinical Medicine Editorial
Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/jcm
jcm@mdpi.com
[X@JCM_MDPI](https://twitter.com/JCM_MDPI)