



Dissolution and Disintegration of Oral Solid Dosage Forms

Guest Editors:

Prof. Dr. Rachel Smith

Department of Chemical and
Biological Engineering, The
University of Sheffield, Sheffield
S10 2TN, UK

Dr. Daniel Markl

Strathclyde Institute of Pharmacy
and Biomedical Sciences,
University of Strathclyde,
Glasgow G1 1RD, UK

Deadline for manuscript
submissions:

closed (10 March 2023)

Message from the Guest Editors

Dear Colleagues,

The disintegration and dissolution behaviour of solid oral dosage forms is an essential performance measure for all medicines. As available manufacturing methods for medicines diversify the level of control over intermediate (e.g. granules and spherical agglomerates) and final product microstructures is improving, and with it the ability to control disintegration and dissolution performance. There is increasing opportunity to design formulations and manufacturing methods to achieve desired release profiles, however the mechanisms behind dosage form disintegration and dissolution are complex and their link to raw material attributes, formulations, manufacturing and storage conditions are not fully understood. Contributions are invited which further the understanding, prediction and measurement of disintegration and dissolution of solid oral dosage forms. Of particular interest are studies which investigate the complex interactions of materials, formulations, manufacturing, storage and the disintegration and dissolution performance, and also those with proposed mechanistic models to explain and predict drug release phenomena.





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 and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

Contact Us

Pharmaceutics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

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