



Advance in Pharmaceutical Engineering: PAT and Model-Based Approach for QbD and Continuous Processes

Guest Editors:

Prof. Dr. Antonello A. Barresi

Coordinator of Pharmaceutical Technology lab, Department of Applied Science and Technology, Politecnico di Torino, 24 Corso Duca degli Abruzzi, 10129 Torino, Italy

Dr. Alberto Vallan

Politecnico di Torino, Department of Electronics and Telecommunications, corso Duca degli Abruzzi, 24, I-10129 Torino, Italy

Dr. Andrea Arsiccio

Molecular Engineering Laboratory, Department of Applied Science and Technology, Politecnico di Torino, 24 Corso Duca degli Abruzzi, 10129 Torino, Italy

Message from the Guest Editors

The pharmaceutical industry is facing an unprecedented challenge in terms of market demand and volatility. This poses the problem of advancing the current system of production with new technologies capable of guaranteeing more flexibility, increased productivity, and operational excellence.

The aim of this Special Issue is to collect state-of-the-art knowledge in advanced technologies for pharmaceutical manufacturing. Special focus will be devoted to process analytical technologies (PAT), whose application enables higher yields and cost reduction through better process understanding. Contributions devoted to the development and application of modeling approaches for the design and control of pharmaceutical production, in the framework of the quality by design (QbD) concept, are also welcomed. A key point of the Special Issue is the potential application of PAT and model-based design to the development of continuous production processes, whose implementation would represent an important milestone towards a fully flexible, high-quality, and easily scalable production pipeline.

Deadline for manuscript submissions:

closed (31 October 2022)



mdpi.com/si/105583

Special Issue



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