

Special Issue

Drug Formulation and Process Optimization

Message from the Guest Editors

Drug substances can have fantastic properties; however, good formulation is critical for high-quality care. Different formulations or routes of administration can change the release of the substance from its matrix, thereby altering pharmacokinetic or dynamic properties. Moreover, good application of medication relies on ease of use, and knowledge of dosage forms and formulation is paramount, especially for the development and understanding of biologicals, vaccines and ATMPs. This knowledge also supports process optimisation and guarantees good-quality products. Changes in the way we treat diseases also have consequences. Personalized therapy asks for fast and flexible dosing and different manufacturing processes. There is constant innovation in treatments, leading to new formulations and dosage forms, which makes this an interesting research area from a patient but also a production perspective. From 3D printing to cellular therapies, the production of medication remains a fascinating area.

Guest Editors

Dr. Kirsten J. M. Schimmel

Leiden University Medical Center - LUMC, P.O. Box 9600, 2300 RC Leiden, The Netherlands

Dr. Paul Le Brun

Leiden University Medical Center - LUMC, P.O. Box 9600, 2300 RC Leiden, The Netherlands

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy,
Rutgers University, Piscataway, NJ 08854, USA

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