

Special Issue

3D-Printed Solid Pharmaceutical Formulations: Physicochemical Properties and Modified Release

Message from the Guest Editor

In recent years, 3D printing (3DP), especially towards the production of personalized solid oral formulations, has attracted the vivid interest of academia, the chemical industry and pharma. However, commercially available 3D printers are limited with regards to the materials that can be processed—only a few types of thermoplastic polymers are suitable, and these may often not be pharmaceutically approved biomaterials and/or ideal for optimizing the dosage form performance of poorly water-soluble active substances. In this special section of *Pharmaceutics*, articles that bring a new insight into the design principles of controlled release formulations using 3DP technology are hosted. The manuscripts presented herein report the interplay of the miscibility between excipients in the blends, the solubility of the bioactive substances in the aqueous dissolution media and the nature/stereoelectronic features of the biopolymers used to manipulate the drug release rate of the dispersions.

Guest Editor

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