Special Issue

Innovative Approaches to Achieve Immediate or Controlled Release Profiles from 3D Printed Dosage Forms

Message from the Guest Editor

The use of 3D printing in pharmaceutics has been increasing in the last decade, as a versatile approach to obtain customised drug dosage forms. Research groups around the world have reported different approaches to tailor the drug dose and the drug release profile of 3D printed formulations, which may be administered by diverse routes. Several 3D printing techniques have been proposed, such as fused deposition modelling, direct powder extrusion, semisolid extrusion, stereolithography, digital light processing, and selective laser sintering, among others. Different materials can be used as feedstock, such as resins, polymers, powders, and nanomaterials, depending on the 3D printing technique as well as on the desired properties of the final dosage forms. Therefore, we are looking for current progress and novel approaches to customise 3D printed drug delivery systems using versatile materials and techniques. Contributions will be welcome either as original or review articles. Submissions reporting the overcoming of important challenges in this area are encouraged.

Guest Editor

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Deadline for manuscript submissions

closed (30 May 2023)

Pharmaceutics

an Open Access Journal by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed

mdpi.com/si/135293

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Indexed in PubMed

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