



Pharmaceutical Applications of Hot-melt Extrusion

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Over the past few decades, hot-melt extrusion (HME) techniques have appeared as an innovative platform for the manufacture of various pharmaceuticals. HME is primarily used for the manufacture of pharmaceutical solid dispersions. It also combines the advantages of a solvent-free process with fewer production steps so that it is easy to scale-up and can perform continuous manufacturing applications. Despite HME can successfully be utilized as an effective means to manufacture various novel macromolecules and biologics, it has now explicitly been established, from a quality by design (QbD) viewpoint, as per recent guidelines issued by the US FDA. Moreover, HME has enjoyed a renaissance through coupling with modern manufacturing techniques, such as 3D printing, to deliver most immediate potential for unit dose fabrications. The proposed Special Issue will focus primarily on the foregoing subject areas (advanced applications for drug delivery/twin-screw granulations, continuous co-crystallisation, controlled release, taste masking and sustained release case studies, 3D printing technology, and FDA's perspectives).

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Message from the Editor-in-Chief

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