

Special Issue

Advances in AI-Driven Drug Delivery Systems

Message from the Guest Editors

Recently, artificial intelligence (AI) has emerged as a transformative technique in the field of pharmaceuticals, particularly in relation to the development of drug delivery systems. With the integration of AI and machine learning (ML), the development of drug delivery systems can be greatly accelerated, specifically in the preformulation, formulation design and optimization, process control, manufacturing, and drug delivery processes. Numerous AI algorithms and models have successfully been developed to improve the efficiency and enhance the understanding of these aspects. This Special Issue aims to focus on recent advances in AI-driven drug delivery systems, including but not limited to, the following: (1) emerging AI applications in formulation; (2) ML-enabled drug formulation analytics and characterization; (3) AI-driven methodologies to predict in vitro drug delivery processes; (4) data-driven drug formulation manufacturing and quality control; (5) AI-driven 3D and 4D printing of drug delivery systems; and (6) regulatory sciences of AI-driven drug delivery system development. These topics highlight the importance of AI in pharmaceuticals.

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Deadline for manuscript submissions

30 June 2026



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



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