

Special Issue

Innovative Drug Delivery Strategies Across Biological Barriers: From Organ-on-a-Chip Models to Nanopharmaceuticals

Message from the Guest Editors

This Special Issue compiles selected contributions from the [international symposium on advanced drug delivery systems](#), held in Budapest, Hungary, 24–26 April 2025. The event brought together experts from academia and industry to discuss recent breakthroughs in overcoming biological barriers, including the blood–brain barrier, skin, and intestinal, ocular, pulmonary, and nasal membranes. Topics include organ-on-chip technologies, nanocarriers, 3D-printed formulations, gene delivery systems, and transporter-based approaches. Special emphasis is placed on translational potential, patient-centric design, and regulatory considerations. This Special Issue aims to provide a comprehensive overview of cutting-edge innovations driving the future of pharmaceuticals and personalized medicine.

Guest Editors

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