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 pharmaceutics and personalized medicine.

Guest Editors

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