Special Issue

Organ-on-Chip for Drug Transport and Bioavailability Assessment

Message from the Guest Editor

With the introduction of FDA Modernization Act 3.0, organ-on-a-chip technology can play a significant role in drug testing, helping to bring new, effective, and safe treatments to patients quickly. We are pleased to invite you to contribute your research to this Special Issue, "Organ-on-Chip for Drug Transport and Bioavailability Assessment." This Special Issue will highlight how readouts from organ-on-a-chip technology can be related to drug transport, bioavailability, and other pharmacokinetic measures commonly reported in drug testing. We welcome submissions covering all organ systems and various diseases. Of particular interest are new detection and analysis methods and the testing of macromolecules (e.g., biologics). In vivo benchmarking data are welcome but not necessary. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Multi-Organ-on-a-Chip Systems and PK/PD Modeling
- Drug Transport and Biological Barrier Function
- Testing of Macromolecules and Complex Therapies
- Novel Detection, Analysis, and AI Integration

I look forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2026)

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Message from the Editor-in-Chief

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