



## Alternative Model-Based Translational Drug Development

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Deadline for manuscript submissions:

**closed (31 December 2024)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to shed light on the latest advancements in alternative drug delivery models and their potential implications for translational medicine. Research areas may include, but are not limited to:

- Recent developments in nanotechnology-based drug delivery systems, including nanoparticles, liposomes, and micelles.
- Alternative models for drug delivery research, such as organoids, microfluidic systems, and computational modeling.
- Bioengineering strategies for personalized medicine, such as 3D printing of drug delivery devices and organs-on-chips.
- Development of patient-specific drug delivery systems, considering factors like genetic variations and disease-specific characteristics.
- Design and evaluation of preclinical models that better mimic human physiology and predict clinical outcomes.
- Development of novel targeting agents and strategies to improve drug accumulation at specific disease sites.
- Case studies on the clinical application of targeted drug delivery systems, highlighting their efficacy and potential impact on patient outcomes.
- Application of alternative models in studying drug transport, absorption, and distribution.





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