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Hybrid Approaches in Drug Delivery Systems: Leveraging Generative AI and Machine Learning for Targeted Therapy

ABOUT BOOK

Al and machine learning are transforming drug delivery by optimizing formulations, enhancing precision therapy, and enabling real-time monitoring. Traditional systems face challenges like poor bioavailability and systemic toxicity, but Al-driven models improve drug-target interactions, adaptive dosing, and nanoparticle-based delivery. Despite regulatory and data privacy concerns, Al offers promising solutions for more effective treatments. This book, Hybrid Approaches in Drug Delivery Systems, bridges Al innovations with practical applications in pharmaceuticals. It explores Al-assisted molecular modeling, predictive analytics, and IoT-integrated drug monitoring while addressing ethical and regulatory challenges. By combining computational intelligence with biomedical advancements, it aims to revolutionize precision medicine and targeted drug

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TIME LINE

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SUBMISSION EMAIL ID

benthamdrug2025@gmail.com

CONTACT +91-9456961991, +91-9897260563

EDITORS



Amity University Mumbai, Maharashtra



Dr. Durgesh Srivastava Chitkara University, Rajpura, Punjab



Dr. Amit Garg Manipal University Jaipur, Amity University Noida, Jaipur Rajasthan



Dr. Sofia Singh Uttar Pradesh



Dr. Salil Bharany Chitkara University, Rajpura, Punjab.



Dr. Siyaneasan Bala Krishnan Singapore Institute of Technology, Singapore

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- **Similarity Index:** Must be below 10% (Maximum 3% from any single source) and AI Similarity 0% as per Turnitin
- **Peer Review:** Each chapter will undergo a double-blind peer review process to evaluate: Originality, Clarity and Usefulness.
- One author of each chapter should be from medical/ pharma background.
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For More Queries:

benthamdrug2025@gmail.com | +91 9456961991 | +91 9897260563

Editorial Team:

- ♠ Dr. Garima Shukla, Amity University, Mumbai, Maharashtra, India
- Dr. Durgesh Srivastava, Chitkara University Rajpura, Punjab, India
- Dr. Amit Garg, Manipal University Jaipur, Jaipur, Rajasthan, India
- nterior Dr. Sofia Singh, Amity University, Noida, Uttar Pradesh, India

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