Recent Advances in Drug Delivery Technology

Part of the Advances in Medical Technologies and Clinical Practice Book Series

Raj K. Keservani (School of Pharmaceutical Sciences Rajiv Gandhi Proudyogiki Vishwavidyalaya, India), Anil K. Sharma (Delhi Institute of Pharmaceutical Sciences and Research, India) and Rajesh Kumar Kesharwani (National Institute of Technology, Warangal, India)

Description:

Technological innovations have become the impetus for continuous developments in medical research. With the assistance of new technologies, effective drug delivery techniques have been improved for optimal patient care.

Recent Advances in Drug Delivery Technology is a pivotal reference source for the latest scholarly research on the application of pharmaceutical technology to optimize techniques for drug delivery in patients. Focuses on novel approaches in pharmaceutical science.

Recent Advances in Drug Delivery Technology Rij K. Keserani, Aril K. Sharma, and Rajesh Kumar Kesharwani

Readers:

This book is ideally designed for medical practitioners, upper-level students, scientists, and researchers.

Topics Covered:

- Bioinformatics
 Cosmeceuticals
 Herbal Approaches
 Nutraceuticals
 Pharmacogenetics
 Proteomics
- Nanomedicine

Hardcover + E-Access + Free E-Access: Free Hardcover:

\$215.00 \$215.00

Order Information

Phone: 717-533-8845 x100 Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115 Online Bookstore: www.igi-global.com



Table of Contents

SECTION I Nanomedicine

Chapter 1: Personalized Approach in Nanomedicine: Understanding Adverse Effects and Their Risk Assessment

Maria Vlasova, University of Eastern Finland, Yliopistoranta 1C Kuopio, Pohjois-Savo 70201, Fl

Boris V. Smirin, University of Eastern Finland, Neulamaentie, 2 Kuopio, Pohjois-Savo 70211, Fl

SECTION II Pharmacogenetics

Chapter 2: Drug Delivery Strategies for Tolerogenic Therapy for Autoimmune Diseases in an Antigen-Specific Manner

Kevin J Peine, UNC Eshelman School of Pharmacy, The University of North Carolina at Chapel Hill, 4229E Marsico Hall, 125 Mason Farm Rd. Chapel Hill, NC 27599, US.

Naihan Chen, UNC Eshelman School of Pharmacy, The University of North Carolina at Chapel Hill, 4229E Marsico Hall, 125 Mason Farm Rd. Chapel Hill, NC 27599, US.

Eric Bachelder, UNC Eshelman School of Pharmacy, The University of North Carolina at Chapel Hill, 4229E Marsico Hall, 125 Mason Farm Rd. Chapel Hill, NC 27599, US.

Kristy Ainslie, UNC Eshelman School of Pharmacy, The University of North Carolina at Chapel Hill, 4229E Marsico Hall, 125 Mason Farm Rd. Chapel Hill, NC 27599, US.

Chapter 3: Cancer Drug Delivery: Pharmacogenetics, Biomarkers and Targeted Therapies

Jai N Patel, Levine Cancer Institute, 1021 Morehead Medical Drive, Charlotte, NC 28204, US.

Jeryl Villadolid, Levine Cancer Institute, 1021 Morehead Medical Drive, Charlotte, NC 28204, US.

SECTION III Proteomics and Genomics

Chapter 4: Genomics and Proteomic approach in the treatment of various human diseases: Application of Genomics and Proteomics

Urmila Jarouliya, School of Studies in Biotechnology, Jiwaji University, Gwalior, Madhya Pradesh 474011, IN (urmi_gudia@rediffmail.com)

Raj K. Keservani, School of Pharmaceutical Sciences, Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, 462036, IN

SECTION IV Bioinformatics

Chapter 5: Bioinformatics and its Therapeutic Applications

Sarvesh Kumar Gupta, Bioinformatics, Indian Institute of Information Technology (IIIT)-Allahabad, U.P., India, 211012.
Kamal Kumar Chaudhary, Bioinformatics, Indian Institute of Information Technology (IIIT)-Allahabad, U.P., India, 211012.

Nidhi Mishra, Bioinformatics, Indian Institute of Information Technology (IIIT)-Allahabad, U.P., India, 211012.

SECTION V Nutraceuticals and Phytopharmaceuticals

Chapter 6: An Overview and Therapeutic Applications of Nutraceutical & Functional Foods

Raj K. Keservani, School of Pharmaceutical Sciences, Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, India-462036.

Anil K. Sharma, Department of Pharmaceutics, Delhi Institute of Pharmaceutical Sciences and Research, New Delhi, India-110017.

Rajesh K. Kesharwani, Department of Biotechnology, National Institute of Technology, Warangal, Telangana, India-506004.

Chapter 7: Phytoparmaceuticals and its Applications in Therapy Alejandra Hernández-Ceruelos, Instituto de Ciencias de la Salud, Universidad Autónoma del Estado de Hidalgo, Mexico, Zarco 248 Col. Guerrero Mexico, D.F. 06300, MX

Sergio Muñoz-Juarez, Universidad Autónoma del Estado de Hidalgo, Ramirez Ulloa 400

Pachuca, D.F. 42100, MX ()

Patricia Vázquez-Alvarado, Universidad Autónoma del Estado de Hidalgo, Ramirez Ulloa 400

Pachuca, D.F. 42100, MX ()

Chapter 8: A Perspective on the Phytopharmaceuticals Responsible for the Therapeutic Applications

Rajesh K. Joshi, Regional Medical Research Centre (Indian Council of Medical Research) Department of Health Research, Nehru Nagar, Belgaum – 590010 Karnataka, India.

Chapter 9: Phytopharmaceutical Applications of Nutraceutical & Functional Foods

Charu Gupta, AIHRS, Amity University UP, Greater Expressway, Sector-125 Noida, 201313. IN

Dhan Prakash, Amity University, A-407 Vivek Vihar, 4th Floor, Sector-82, NOIDA, Gautam Budh Nagar, UP 201304, IN

SECTION VI Cosmeceuticals

Chapter 10: Cosmeceuticals Safety, Efficacy and Their Potentials Renefits

Long Chiau Ming, Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam, Selangor 42300, MY.

Wei Chern Ang, Department of Pharmacy & Pharmacology, University of Bath, Avon BA2 7AY, GB.

Quan Yang, Department of Pharmacy & Pharmacology, University of Bath, Avon BA2 7AY, GB.

Premrutai Thitilertdecha, Mahidol University, Thailand

Tin Wui Wong, Non-Destructive Biomedical and Pharmaceutical Research Centre, Universiti Teknologi MARA, iPROMISE UiTM PUNCAK ALAM, PUNCAK ALAM, Selangor 42300, MY

Tahir Mehmood Khan, School of Pharmacy, Monash University Malaysia, Jalan Lagoon Selatan, Bandar Sunway, Selangor 45700, MY.

Chapter 11: Cosmeceuticals- Camel and Other Milk- Natural Skin Maintenance

Reuven Yaqil, Ben-Gurion University of the Negev, Israel.

SECTION VII Red Blood Cells

Chapter 12: Resealed Erythrocytes As Drug Carriers and Its Therapeutic Application

Prabhakar Singh, Department of Biochemistry, University of Allahabad, Allahabad, Uttar Pradesh 211002, IN.

Sudhakar Singh, Department of Cardiology, Kolkata Medical College, Kolkata, 700073, India

Rajesh K. Kesharwani, Faculty of Biotechnology, National Institute of Technology, Warangal, Telangana, 506004, India.

SECTION VIII Herbals

Chapter 13: New Herbal Approaches for the Treatment of Diabetic Kidney Diseases and its Therapeutic Implications

Durgavati Yadav, Dept. of Medicinal Chemistry, Institute of Medical Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh 221005, IN

Vivek Pandey, Dept. of Medicinal Chemistry, Institute of Medical Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh 221005, IN

Shivani Srivastava, Dept. of Medicinal Chemistry, Institute of Medical Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh 221005, IN

Yamini Bhusan Tripathi, Dept. of Medicinal Chemistry, Institute of Medical Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh 221005, IN Raj K. Keservani has more than 7 years of academic (Teaching) experience in various institutes of India imparting Pharmaceutical education. Mr. Keservani did his graduation (B. Pharmacy) from Department of Pharmacy, Kumaun University, Nainital (U.A.), India in 2005. Afterwards he qualified GATE in same year conducted by IIT Mumbai. He received Master of Pharmacy (M. Pharmacy) from School of Pharmaceutical Sciences, Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.), India in 2008 with specialization in Pharmaceutics. Further, he has published 25 peer reviewed papers in the field of Pharmaceutical Sciences in national and international reputed journals, 10 book chapters, 2 co-authored books. He is also active as a reviewer in several scientific international journals. His research interest encompasses Nutraceutical and Functional Foods, Novel Drug Delivery Systems (NDDS), Transdermal Drug Delivery/ Drug Delivery, Health Science/Life Science, Biology/Cancer Biology/Neurobiology.

Anil K. Sharma has completed post graduation in pharmaceutics. His research interests include drug delivery, particulate carriers, nutraceuticals, ophthalmic therapeutics.

Rajesh K. Kesharwani has more than 7 years of research and 2 years of teaching experience in various institutes of India imparting bioinformatics and biotechnology education. Dr. Kesharwani did his graduation (B.Sc. Biology) from Ewing Christian College, Allahabad, an autonomous college of University of Allahabad and post-graduation (M.Sc. Biochemistry) from Awadesh Pratap Singh University, Rewa, Madhya Pradesh, India. He has qualified GATE 2005 and 2006, received Ministry of Human Resource Development, India fellowship to complete M.Tech-IT (specialization in Bioinformatics) degree from Indian Institute of Information Technology, Allahabad, India in 2008. He has completed doctorate (Ph.D.) from Indian Institute of Information Technology, Allahabad in 2014 and received Ministry of Human Resource Development, India fellowship and Senior Research Fellowship from Indian Council of Medical Research, India. Dr. Kesharwani has awarded Swarna Jayanti Puruskar by The National Academy of Sciences, India for best paper presentation. He has authored 29+ peer-reviewed articles, 5 book chapters and, one book as co-editor together with more than 10 book chapters has been accepted for publication with international publishers. He has been members of many scientific communities and reviewer of many international journals. His research fields of interest are Medical Informatics, Protein Structure and Function Prediction, Computer-Aided Drug Designing, Structural Biology, Drug Delivery, Cancer Biology and Next Generation Sequence Analysis.

Order Information

Phone: 717-533-8845 x100 Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115 Online Bookstore: www.igi-global.com

