Advances in Drug Delivery

Y. Madhusudan Rao and A V Jithan

Advances in drug delivery is a very specialized area of pharmaceutics where in the principles and technologies applied in the formulation and development, are emerging and progressing. Advances in Drug Delivery, incorporates latest information regarding various subjects of drug delivery. Drug delivery is a broad term encompassing various means of achieving optimum drug reach to the target tissue, cell or the receptor. Several preformulation, formulation, biopharmaceutical, targeting and pharmacokinetic principles are applied in drug delivery. Research and development in drug delivery is increasing at a rapid pace throughout the world. The need for increased efficiency of new therapies and reduction in future public health expenses will definitely bolster this area of research and development. In order to meet this demand, many well known and efficiently applied drugs will be reformulated in new drug delivery systems that can be value-added for optimized therapeutic activity. Further, several new molecules are being generated by medicinal chemists and their formulation is not any more empirical but it is now very systematic. The aim of book is to enlighten pharmaceutical scientists all around the world with latest information on the topics which are involved in cutting edge growth of pharma research and industry.

Highlights

• A chapter on hot melt extrusion is included
• Included a chapter on oral disintegrating tablets - a value addition product
• Caters to all those who aim to achieve higher objectives in drug delivery

About the Editors

Prof. Y. Madhusudan Rao, M.Pharm, Ph.D is currently working as senior professor in University College of Pharmaceutical Sciences, Kakatiya University, Warangal. He has 35 years of experience in teaching and research, 155 research publications, 15 review articles, guided 27 scholars for Ph.D. is having 6 national and 1 international patent. He taught cosmetic technology for B.Pharm and M.Pharm students for more than 13 years. He guided the research work for 3 students at M.Pharm and 1 student for Ph.D in the field of Cosmetics and Cosmeceuticals. He acted as consultant to many industries producing cosmetics and few of the products developed are commercialized and launched. A few more cosmetic products are to be launched this year. Apart from his interest in cosmetics, he has considerable experience and publications in Novel drug delivery systems, Biopharmaceutics and Pharmacokinetics. He received research projects from various funding agencies.

A. V. Jithan, Ph D is currently working as Principal and Professor at Mother Theresa College of Pharmacy, Hyderabad. Dr. Jithan is a recipient of several awards and medals in his entire academic career. He has authored a textbook for M.Pharm. Students with the title: Oral Drug Delivery Technology published by PharmaMed Press, Hyderabad. He has guided number of M.Pharm students and currently guiding Ph.D. candidates. He has 50 peer reviewed publications. He is a recipient of SERC-Fast track grant from DST India.

Contents:


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Cosmeceuticals

Y. Madhusudan Rao and Shayeda

In cosmetic industries most of the details are kept as secrets and are not fully disclosed. Herbal and Natural Cosmetics and Cosmeceuticals are not discussed properly and very few literatures are available. The evaluation part of the products are mostly not disclosed. This book covers regulatory aspects of Cosmeceuticals in various countries including India. Regulatory aspects also differ in various countries as far as Cosmeceuticals is interpreted differently. In some countries they are equated as Cosmetics, in others they are considered as OTC drugs/drugs. The author has been associated with teaching and research field of cosmetics for more than 30 years. He acted as consultant to many industries producing cosmetics. This book is useful for students of pharmacy (under graduate and post graduate), teachers and people in cosmetic industry and allied fields.


About the Editors

Dr. Shayeda, is working as Asst. Professor at University College of Pharmaceutical Sciences, Kakatiya University, Warangal. She got two research projects from UGC and AICTE, INDIA. She has publications in national and international journals. Now she is guiding M.Pharmacy and Ph.D students in the field of pharmaceutics. She has completed her Ph.D in cosmetics and has European patent in the field of cosmetics.

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Since the release of the first edition of 'Oral Drug Delivery Technology' book, several things changed such as generic market in India, especially oral formulations has doubled. We are now supplying generic drugs to several countries of the world. Rules of their acceptance into respective markets have rigidified. Exploratory pharmaceutics in India is still receiving lukewarm attention. However, this is slowly changing in big pharmaceutical companies in India. Now pharmaceutical companies are trying to introduce new drugs into global markets. Strong preformulation teams, intelligent formulators, proficient regulatory managers, superior production managers are now needed more than before.

The second edition has been modified to cater the needs of pharmaceutical professionals in the above mentioned areas in a better way. Although central theme of this edition remained the same as that of the first edition, the following changes have been executed:

- The structure of the book is revamped to give a more elegant look and comprehensive overview. Several chapters have been revised and expanded to provide greater insight.
- The entire chapter on oral formulations has been given a totally new look. Description of all types of oral formulations has been included in this one chapter.
- A chapter on process validation has been added.
- Chapters on safety and toxicity of new drug substances and Pharmaceutical statistics have been deleted to bring more attention to pharmaceutics and industrial pharmacy.
- The book can be used as a textbook as well as reference book for B.Pharm, M. Pharm and Ph.D. students and can be used as a quick reference by the industrial scientists.


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Cosmetics: Science and Technology has many predecessors and among its contemporaries does not pretend to preempt the field. The burgeoning of a science of cosmetics, a technology of cosmetics, without the abandonment of what must in part remain a craft, a skill and an art, brought forth several excellent books in various languages, which sought to summarise the state of the knowledge. Among these Cosmetics: Science and Technology, published for the first time in 1957, was unique in that it was a collective effort of 61 specialists in the field. In this aspect lies both the potential strength and possible hazard of such an undertaking. The first edition – a heavy volume of more than 1400 pages, was reviewed widely and enthusiastically by science and trade journals and was warmly received by members of the profession. In reviewing the chapters for the second edition, some authors considered it necessary to start a new, with a completely different approach, based on the research findings. Some changes that have occurred are not reflected in science and technology, but are, rather in fashion and fad. Such changes concern the chemist in so far as the products are affected by the fancy of the day, but they are irrelevant to a description of the state of the science. Volume 1 contains descriptive material on the manufacture and formulation of fifteen different products and classes of products. Volume 2 contains descriptive material on the manufacture and formulation of eighteen different products and classes of products. Volume 3 contains chapters on the physiology of the skin and hair, the physiology of sweat, the use of colours in cosmetics, problems of quality control, presentation and psychological testing, historical information and legal information.


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