



Special Issue Reprint

Pharmaceutical Particulates and Membranes for Delivery of Drugs and Bioactive Molecules

www.mdpi.com/books/reprint/2420

Edited by

Diganta B. Das

G Arthanareeswaran

Mostafa Mabrouk

Hanan H. Beherei



ISBN 978-3-03936-392-6 (Hardback)

ISBN 978-3-03936-393-3 (PDF)

This book is a collection of papers published in the Special Issue of Pharmaceutics, entitled "Pharmaceutical Particulates and Membranes for Delivery of Drugs and Bioactive Molecules". A drug release profile is a consequential factor for nanoparticle application, directly related to drug stability and therapeutic results, as well as formulation development. Pharmaceutical particulates of different sizes and shapes (e.g., liposomes, oil-in-water emulsions, polymeric nano- and microspheres, metallic nanoparticles (NPs) such as gold, silver and iron oxide crystals, and core-shell hybrid NPs) offer many diagnostic and therapeutic applications. Membranes are also extensively utilized in many applications. They are especially beneficial to the distribution of macromolecular drugs and biopharmaceutical drugs (peptides, proteins, antibodies, oligonucleotides, plasmids, and viruses) with physicochemical and pharmacokinetic vulnerability. The delivery of drugs and bioactive molecules using particulates and membranes has gained a great deal of attention for various applications, such as the treatment of secondary infections, cancer treatment, skin regeneration, orthopaedic applications, and antimicrobial drug delivery. In addition, several production techniques have been utilized for the fabrication of particulates and membranes in the last decade, which include lyophilisation, micro-emulsion, nano-spray dryer, nano-electrospinning, slip casting and 3D printers. Therefore, pharmaceutical particulates and membranes possess excellent prospects to deliver drugs and bioactive molecules with the prove new delivery strategies like sustained and controlled release.



Order Your Print Copy
You can order print copies at
www.mdpi.com/books/reprint/2420

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.