



*molecules*

IMPACT  
FACTOR  
**4.6**

Indexed in:  
**PubMed**

CITESCORE  
**6.7**

*Special Issue Reprint*

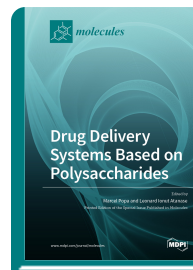
## Drug Delivery Systems Based on Polysaccharides

[www.mdpi.com/books/reprint/4279](http://www.mdpi.com/books/reprint/4279)

Edited by

Marcel Popa

Leonard Ionut Atanase



ISBN 978-3-0365-1676-9 (Hardback)

ISBN 978-3-0365-1675-2 (PDF)

We live in a constantly changing society, in which life expectancy has continuously increased, and, therefore, important health issues need to be solved. The development of nanotechnology with applications in the medical field—nanomedicine—has been proven to have strong therapeutic potential, especially by combining drugs with natural polymers, polysaccharides being most commonly used in the development of sustained and controlled release systems of biologically active principles. Polymeric nanoparticles loaded with drugs can actively target various diseases, being able to penetrate cells more effectively or succeed in overcoming some physiological barriers such as the blood–brain barrier. Drug-loaded hydrogels are used to treat dermal and dental conditions, and can act as scaffolds for the development of cell cultures with applications in tissue engineering. The recent literature abounds with articles discussing aspects of obtaining new polymer drug systems and their use in various biomedical applications. The editors of this Special Issue of the journal *Molecules*, entitled *Drug Delivery Systems Based on Polysaccharides*, are researchers with decades of experience in this field, and they consider justified and useful these several articles which report recent results of drug delivery systems based on polysaccharides and derivatives, respectively, and their biomedical applications. The authors of the articles are experts in the field, and the editors express their gratitude for the kindness and promptness with which they responded to the call to contribute the recently obtained results of their research to this specific edition of the journal *Molecules*.



Order Your Print Copy

You can order print copies at

[www.mdpi.com/books/reprint/4279](http://www.mdpi.com/books/reprint/4279)

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.