

1. Record Nr.	UNINA9910819348103321
Titolo	Handbook of polymers for pharmaceutical technologies . Volume 3 Biodegradable polymers / / edited by Vijay Kumar Thakur and Manju Kumari Thakur
Pubbl/distr/stampa	Hoboken, New Jersey ; ; Salem, Massachusetts : , : Scrivener Publishing : , : Wiley, , 2015 ©2015
ISBN	1-119-04143-0 1-119-04145-7 1-119-04144-9
Descrizione fisica	1 online resource (727 p.)
Disciplina	572.33
Soggetti	Polymers - Therapeutic use Polymers in medicine Pharmaceutical technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	""Half Title page""; ""Title page""; ""Copyright page""; ""Dedication""; ""Preface""; ""Chapter 1: Bioactive Polysaccharides of Vegetable and Microbial Origins: An Overview""; ""1.1 Introduction""; ""1.2 Anticarcinogenic Polysaccharides""; ""1.3 Anti- inflammatory/Immunostimulating Polysaccharides""; ""1.4 Antiviral Polysaccharides""; ""1.5 Antioxidant Polysaccharides""; ""1.6 Other Biotechnological Applications""; ""1.7 Conclusions and Future Perspectives""; ""Acknowledgments""; ""References""; ""Chapter 2: Chitosan: An Emanating Polymeric Carrier for Drug Delivery""; ""2.1 Introduction"" ""2.2 Preparation of Chitosan""""2.3 Physicochemical Properties of Chitosan""; ""2.4 Biological Activities of Chitosan""; ""2.5 Pharmaceutical Applications of Chitosan""; ""2.6 Functionalization of Chitosan""; ""2.7 Conclusion and Future Perspectives""; ""References""; ""Chapter 3: Fungi as Sources of Polysaccharides for Pharmaceutical and Biomedical Applications""; ""3.1 Introduction""; ""3.2 The Fungal Cell""; ""3.3

Polysaccharides Produced by Fungi"; "3.4 Production and Extraction of Polysaccharides from Fungi"
"3.5 Fungal Polysaccharides in Biomedical and Pharmaceutical Applications"
"3.6 Commercial Exploitation of Fungal Polysaccharides in Biomedical and Pharmaceutical Applications"; "3.7 Conclusion and Future Perspective"; "References"; "Chapter 4: Environmentally Responsive Chitosan-based Nanocarriers (CBNs)"
"4.1 Introduction"; "4.2 Graft Copolymerized CBNs"; "4.3 pH-Sensitive CBNs"; "4.4 Thermosensitive CBNs"; "4.5 pH-Sensitive and Thermosensitive CBNs"; "4.6 pH- and Ionic-Sensitive CBNs"; "4.7 Photosensitive CBNs"; "4.8 Electrical-Sensitive CBNs"
"4.9 Magneto-Responsive CBNs"
"4.10 Chemo-Sensitive CBNs"; "4.11 Biodegradation of Chitosan and Its Derivatives"; "4.12 Toxicity of CBNs"; "4.13 Conclusions and Future Perspectives"; "References"; "Chapter 5: Biomass Derived and Biomass Inspired Polymers in Pharmaceutical Applications"; "5.1 Introduction"; "5.2 Biodegradable Polymers in Biomedical Applications - Relevant Aspects"; "5.3 Biodegradable Natural Polymers in Pharmaceutical Applications"; "5.4 Micro- and Nanocrystalline Natural Polymers and Fibrils - General Regulative Considerations"
"5.5 Concluding Remarks and Outlook"
"References"; "Chapter 6: Modification of Cyclodextrin for Improvement of Complexation and Formulation Properties"; "Abbreviations"; "6.1 Introduction"; "6.2 Cyclodextrin and Its Degradation"; "6.3 Complexation by CDs and Release"; "6.4 Modifications and Scope with Respect to Pharmaceutical Application"; "6.5 Concluding Remarks"; "Acknowledgements"; "References"; "Chapter 7: Cellulose-, Ethylene Oxide- and Acrylic-Based Polymers in Assembled Module Technology (Dome Matrix®)"
"7.1 Dome Matrix® Technology"
"7.2 Polymers for Controlled Drug Release"
