

1. Record Nr.	UNINA9910855389403321
Autore	Noore Shaba
Titolo	Nanocarriers for Controlled Release and Target Delivery of Bioactive Compounds
Pubbl/distr/stampa	Cham : , : Springer, , 2024 ©2024
ISBN	3-031-57488-5
Edizione	[1st ed.]
Descrizione fisica	1 online resource (91 pages)
Collana	SpringerBriefs in Food, Health, and Nutrition Series
Altri autori (Persone)	PathaniaShivani FuciñosPablo O'DonnellColm P TiwariBrijesh K
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Preface -- Contents -- Chapter 1: Introduction -- 1.1 Nanocarriers -- Chapter 2: Lipid-Based Nanocarriers -- 2.1 Nanoemulsions -- 2.2 Nanoliposomes -- 2.3 Cubosomes and Hexosomes -- 2.4 Tocosome -- 2.5 Solid Lipid Nanoparticles -- 2.6 Nanostructured Lipid Carriers -- 2.7 Smart Lipid Nanocarriers -- Chapter 3: Protein-Based Nanocarriers -- 3.1 Nanoparticles -- 3.2 Hollow Nanoparticles -- 3.3 Nanohydrogels -- 3.4 Nanofibrils -- 3.5 Electrospun Nanofibers -- 3.6 Nanotubes -- 3.7 Natural Nanocarriers -- 3.8 Cage-Like Proteins Nanoencapsulation -- 3.9 Ferritin Nanocages -- 3.10 Dps Nanocage -- 3.11 Heat Shock Protein -- 3.12 Encapsulation Protein -- 3.13 Pyruvate Dehydrogenase -- Chapter 4: Carbohydrate Based Nanocarriers -- 4.1 Polymeric Nanoparticles -- 4.2 Polymeric Micelles -- 4.3 Polymeric Nanogels -- 4.4 Dendrimers -- Chapter 5: Synthetic Polymeric Nanocarriers -- 5.1 Echogenic Immunoliposomes -- 5.2 Nanobots -- 5.3 Hybrid Nanocarriers -- 5.4 Decorating Nanocarriers -- 5.4.1 Quantum Dots -- 5.4.2 Silver Nanoparticles -- 5.4.3 Gold Nanoparticle -- 5.4.4 Graphene Oxide -- 5.4.5 Zinc Oxide -- Chapter 6: Quality Parameters of Nanoencapsulation -- 6.1 Particle Size Measurement -- 6.2 Zeta

Potential -- 6.3 Morphology -- 6.4 Entrapment Efficiency -- 6.5  
Crystallinity and Polymorphism -- 6.6 Magnetic Resonance  
Investigation -- 6.7 Raman and Fourier Transform Infrared  
Spectroscopy -- Chapter 7: Nanoencapsulation of Bioactive Compounds  
-- 7.1 Bioactive Peptides/Proteins -- 7.2 Lipids -- 7.3 Minerals -- 7.4  
Vitamin E -- 7.5 Vitamin C -- 7.6 Plant Extracts and Essential Oils --  
7.7 Natural Pigments -- 7.7.1 Curcumin -- 7.7.2 Anthocyanins --  
7.7.3 Carotenoids -- 7.8 Flavours and Aroma -- 7.9 Non-anthocyanin  
Phenolic Compounds -- 7.10 Bacteriophages -- 7.11 Other Small  
Molecules.  
Chapter 8: Controlled Release and Target Delivery of Nanoencapsulated  
Compounds -- 8.1 Commercial Products -- Chapter 9: Future  
Challenges and Conclusions -- Acknowledgement -- References --  
Index.

---