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Titolo	Handbook of polymers for pharmaceutical technologies // edited by Vijay Kumar Thakur and Manju Kumari Thakur
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ISBN	1-119-04153-8 1-119-04155-4 1-119-04154-6
Descrizione fisica	1 online resource (434 p.)
Disciplina	615.1/9
Soggetti	Polymers in medicine Pharmaceutical technology
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	""Title Page""; ""Copyright Page""; ""Dedication""; ""Contents""; ""Preface""; ""1 Smart Hydrogels: Therapeutic Advancements in Hydrogel Technology for Smart Drug Delivery Applications""; ""1.1 Introduction""; ""1.2 Types and Properties of Smart Polymer Hydrogels""; ""1.2.1 Temperature-Responsive Hydrogels""; ""1.2.2 pH- Sensitive Hydrogels""; ""1.2.3 Glucose-Responsive Hydrogels""; ""1.2.4 Electro-Signal Sensitive Hydrogels""; ""1.2.5 Light-Sensitive Hydrogels""; ""1.2.6 Multi-Responsive Smart Hydrogels""; ""1.3 Applications of Smart Polymer Hydrogels""; ""1.4 Conclusion""; ""References"" ""2 Molecularly Imprinted Polymers for Pharmaceutical Applications"" 2.1 Introduction""; ""2.2 Fluoroquinolone Antibiotics""; ""2.3 Sulfonamides""; ""2.4 Miscellaneous""; ""2.5 Conclusions and Future Prospects""; ""2.6 Acronyms and Abbreviations""; ""References""; ""3 Polymeric Stabilizers for Drug Nanocrystals""; ""3.1 Introduction""; ""3.2 Methods for Nanocrystallization""; ""3.2.1 Bottom-Up Technologies""; ""3.2.2 Top-Down Technologies""; ""3.2.3 Combination Technologies""; ""3.3 Stabilization Mechanisms of the Nanocrystals""; ""3.4 Polymers for Nanocrystal Stabilization""

""3.4.1 Polymers of Natural Origin""""3.4.2 Synthetic Polymers""; ""3.5 Effect of Stabilizing Polymers on Drug Biocompatibility, Bioactivity, Membrane Permeability and Drug Absorption""; ""3.6 Conclusions and Future Perspective""; ""References""; ""4 Polymeric Matrices for the Controlled Release of Phosphonate Active Agents for Medicinal Applications""; ""4.1 Introduction""; ""4.2 Polymers in Drug Delivery""; ""4.2.1 Polyesters""; ""4.2.1.1 Poly(lactic acid), Poly(glycolic acid), and Their Copolymers""; ""4.2.1.2 Poly(ethylene glycol) Block Copolymers""; ""4.2.1.3 Poly(ortho esters)"" ""4.2.1.4 Poly(anhydrides)""""4.2.1.5 Poly(anhydride-imides)""; ""4.2.1.6 Poly(anhydrite esters)""; ""4.2.2 Poly(amides)""; ""4.2.3 Poly(iminocarbonates)""; ""4.3 Release of Phosphonate-Based Drugs""; ""4.4 Conclusions/Perspectives""; ""References""; ""5 Hydrogels for Pharmaceutical Applications""; ""5.1 Introduction""; ""5.2 What are Hydrogels?""; ""5.3 Classification of Hydrogels""; ""5.4 Preparation of Hydrogels""; ""5.5 Characterization of Hydrogels""; ""5.6 Application of Hydrogels""; ""5.6.1 Wound Dressing""; ""5.6.2 Implantable Drug Delivery Systems"" ""5.6.3 Tissue Engineering Substitute""""5.6.4 Injectable Hydrogels""; ""5.7 Conclusion""; ""Acknowledgement""; ""References""; ""6 Responsive Plasmid DNA Hydrogels: A New Approach for Biomedical Applications""; ""6.1 Introduction""; ""6.2 DNA-Based Hydrogels""; ""6.3 Controlled and Sustained Release""; ""6.3.1 Photodisruption of Plasmid DNA Networks""; ""6.3.2 Release of Plasmid DNA""; ""6.3.3 Release of Chemotherapeutic Drugs""; ""6.3.4 In Vitro Studies""; ""6.4 Combination of Chemo and Gene Therapies""; ""6.5 Conclusions and Future Perspectives""; ""References"" ""7 Bioactive and Compatible Polysaccharides Hydrogels Structure and Properties for Pharmaceutical Applications""

2. Record Nr.	UNINA9911019339303321
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Titolo	Bioinformatics for vaccinology / / Darren R. Flower
Pubbl/distr/stampa	Chichester, West Sussex, England ; ; Hoboken, NJ, : John Wiley & Sons, 2008
ISBN	9786611939441 9781281939449 1281939447 9780470699836 0470699833 9780470699829 0470699825
Edizione	[1st edition]
Descrizione fisica	1 online resource (314 p.)
Disciplina	615/.3720285
Soggetti	Immunoinformatics Vaccines - Design - Data processing
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 and index.
Nota di contenuto	Bioinformatics for Vaccinology; Contents; Preface; Acknowledgements; Exordium; 1 Vaccines: Their place in history; Smallpox in history; Variolation; Variolation in history; Variolation comes to Britain; Lady Mary Wortley Montagu; Variolation and the Sublime Porte; The royal experiment; The boston connection; Variolation takes hold; The Suttonian method; Variolation in Europe; The coming of vaccination; Edward Jenner; Cowpox; Vaccination vindicated; Louis Pasteur; Vaccination becomes a science; Meister, Pasteur and rabies; A vaccine for every disease; In the time of cholera Haffkine and choleraBubonic plague; The changing face of disease; Almroth wright and typhoid; Tuberculosis, Koch, and Calmette; Vaccine BCG; Poliomyelitis; Salk and Sabin; Diphtheria; Whooping cough; Many diseases, many vaccines; Smallpox: Endgame; Further reading; 2 Vaccines: Need and opportunity; Eradication and reservoirs; The ongoing burden of disease; Lifespans; The evolving nature of disease; Economics, climate and disease; Three threats; Tuberculosis in the 21

st century; HIV and AIDS; Malaria: Then and now; Influenza; Bioterrorism; Vaccines as medicines
 Vaccines and the pharmaceutical industry Making vaccines; The coming of the vaccine industry; 3 Vaccines: How they work; Challenging the immune system; The threat from bacteria: Robust, diverse, and endemic; Microbes, diversity and metagenomics; The intrinsic complexity of the bacterial threat; Microbes and humankind; The nature of vaccines; Types of vaccine; Carbohydrate vaccines; Epitopic vaccines; Vaccine delivery; Emerging immunovaccinology; The immune system; Innate immunity; Adaptive immunity; The microbiome and mucosal immunity; Cellular components of immunity; Cellular immunity
 The T cell repertoire Epitopes: The immunological quantum; The major histocompatibility complex; MHC nomenclature; Peptide binding by the MHC; The structure of the MHC; Antigen presentation; The proteasome; Transporter associated with antigen processing; Class II processing; Seek simplicity and then distrust it; Cross presentation; T cell receptor; T cell activation; Immunological synapse; Signal 1, signal 2, immunodominance; Humoral immunity; Further reading; 4 Vaccines: Data and databases; Making sense of data; Knowledge in a box; The science of -omes and -omics; The proteome
 Systems biology The immunome; Databases and databanks; The relational database; The XML database; The protein universe; Much data, many databases; What proteins do; What proteins are; The amino acid world; The chiral nature of amino acids; Naming the amino acids; The amino acid alphabet; Defining amino acid properties; Size, charge and hydrogen bonding; Hydrophobicity, lipophilicity and partitioning; Understanding partitioning; Charges, ionization, and pka; Many kinds of property; Mapping the world of sequences; Biological sequence databases; Nucleic acid sequence databases
 Protein sequence databases

Sommario/riassunto

"... this book was written from start to finish by one extremely dedicated and erudite individual. The author has done an excellent job of covering the many topics that fall under the umbrella of computational biology for vaccine design, demonstrating an admirable command of subject matter in fields as disparate as object-oriented databases and regulation of T cell response. Simply put, it has just the right breadth and depth, and it reads well. In fact, readability is one of its virtues-making the book enticing and useful, all at once..." Human Vaccines, 2010 ""... This book has sever