

1. Record Nr.	UNISA996394182903316
Autore	Quarles John <1624-1665.>
Titolo	Regale lectum miseræ: or, A kingly bed of miserie [[electronic resource]] : In which is contained, a dreame: with an elegie upon the martyrdome of Charls, late King of England, of blessed memory: and another upon the Right Honourable the Lord Capel. With a curse against the enemies of peace, and the authors farewell to England. By John Quarles
Pubbl/distr/stampa	[London], : Printed for Edw : Crowch, 1649
Descrizione fisica	[8], 110, [2] p., plate
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	In verse. Place of publication from Wing. Text area (under running head) of versos of many leaves printed in solid black; the last leaf is printed black recto and verso. "An elegy upon that never to be forgotten Charles, the First" has separate title page dated 1648; register and pagination are continuous. Probably a variant of Wing Q136 which has imprint: Printed in the yeare, 1649. Reproduction of original in the Christ Church Library, Oxford, England.
Sommario/riassunto	eebo-0026

2. Record Nr.	UNINA9910829913603321
Titolo	DNA interactions with polymers and surfactants [[electronic resource] /] / edited by Rita Dias and Bjorn Lindman
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley, c2008
ISBN	1-281-28527-7 9786611285272 0-470-28636-9 0-470-28635-0
Descrizione fisica	1 online resource (436 p.)
Altri autori (Persone)	LindmanBjorn <1942-> DiasRita
Disciplina	572.8/6 572.86
Soggetti	DNA Polymers Surface active agents
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	DNA INTERACTIONS WITH POLYMERS AND SURFACTANTS; CONTENTS; Preface; Contributors; 1 Polyelectrolytes. Physicochemical Aspects and Biological Significance; 1.1 Introduction; 1.2 Polyelectrolytes and Biological Function; 1.3 Electrostatic Interactions; 1.3.1 Ion Distributions and the Poisson-Boltzmann Equation; 1.3.2 Debye-Huckel Theory; 1.4 Solution Properties; 1.5 Flexibility; 1.5.1 The Concept of Persistence Length; 1.5.2 Interactions and the Separation of Length Scales; 1.5.3 Polyelectrolyte Behavior: Electrostatic Persistence Length; 1.5.4 DNA Persistence Length; References 2 Solution Behavior of Nucleic Acids2.1 Biological Function of Nucleic Acids; 2.2 Discovery of DNA; 2.3 Structure of Nucleic Acids; 2.3.1 DNA; 2.3.2 RNA; 2.3.3 Analogues of Nucleic Acids; 2.4 Nuclei Acids Nanostructures; 2.4.1 DNA; 2.4.2 RNA; 2.5 Behavior of DNA in Solution; 2.5.1 Ionization Equilibrium; 2.5.2 Flexibility of Nucleic Acids; 2.6 Melting of Double-Stranded DNA; 2.6.1 Effect of Base Composition; 2.6.2 Effect of Ionic Strength; 2.6.3 Effect of pH; 2.6.4 Dependence on

DNA Chain Length; 2.6.5 Dependence on DNA Concentration; Acknowledgments; References

3 Single DNA Molecules: Compaction and Decomposition 3.1 Introduction; 3.2 Condensation and Compaction of DNA by Surfactants; 3.2.1 Linear DNA Condensation/Compaction by Positively Charged Surfactants; 3.2.2 Compaction of Plasmid DNA with Surfactants; 3.2.3 Non-ionic Surfactants; 3.2.4 Zwitterionic Surfactants; 3.2.5 Decomposition of DNA-Surfactant Complex; 3.3 DNA Condensation by Cationic Liposomes; 3.4 DNA Compaction and Decomposition by Multivalent Cations; 3.5 DNA Compaction by Polycations; 3.6 Compaction of DNA in a Crowded Environment of Neutral Polymer; 3.7 Conclusion; References

4 Interaction of DNA with Surfactants in Solution 4.1 Introduction; 4.1.1 Surfactants; 4.1.2 Polymer-Surfactant Interactions; 4.1.3 Polyelectrolyte-Oppositely Charged Surfactant Interactions; 4.1.4 DNA-Surfactant Interactions; 4.2 DNA-Cationic Surfactant Interactions; 4.2.1 Solution Behavior; 4.2.2 Effect of the Surfactant Chain Length; 4.2.3 Effect of the Surfactant Head-group; 4.2.4 Structure of DNA-Surfactant Complexes; 4.2.5 DNA Is an Amphiphilic Polyelectrolyte; 4.3 DNA Covalent Gels and Their Interaction with Surfactants; 4.4 Applications; 4.4.1 Control of DNA Compaction/Decompaction 4.4.2 Purification 4.4.3 Gene Transfection; Acknowledgments; References; 5 Interaction of DNA with Cationic Polymers; 5.1 Introduction; 5.2 Theory of DNA Interacting with Polycations; 5.2.1 Manning Condensation; 5.2.2 Counterion Release; 5.2.3 Short-Range Attractive Force due to Ion Correlations; 5.2.4 Phase Diagrams of Condensed DNA-Polycation Phases; 5.2.5 Finite-Size Aggregates; 5.3 Condensation of DNA, Phase Diagram, and Structure; 5.3.1 Short Polycations and Multivalent Cations; 5.3.2 Long Polycations and Basic Proteins; 5.4 Formation of Polycation-DNA Complexes: Polyplexes 5.5 DNA-Nanoparticles for Gene Delivery

Sommario/riassunto

A broad overview of the interaction of DNA with surfactants and polymers Due to the potential benefits of biotechnology, interest in the interaction between DNA and surfactants and polymers has become increasingly significant. Now, DNA Interactions with Polymers and Surfactants provides an extensive, up-to-date overview of the subject, giving readers a basis for understanding the factors leading to complexation between DNA and different cosolutes, including metal ions, polyelectrolytes, spermine, spermidine, surfactants and lipids, and proteins. Topical coverage includes:
