

DNA Interactions with Polymers and Surfactants

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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.

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DNA Interactions with Polymers and Surfactants From Wiley-Interscience Bibliography

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Editorial Review

Review
"Aims to give readers an overview of the subject and a basis for understanding the factors leading to the complexation between DNA and different co-salutes." (*TCE - The Chemical Engineer*, July 2008)

From the Back Cover
A broad overview of the interaction of DNA with surfactants and polymers

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Topical coverage includes:

- Polyelectrolytes, physico-chemical aspects and biological significance
- Solution behavior of nucleic acids
- Single DNA molecules: compaction and decompaction
- Interaction of DNA with surfactants and cationic polymers
- Interactions of histones with DNA
- DNA-DNA interactions
- The hydration of DNA-amphiphile complexes
- DNA-surfactant/lipid complexes at liquid interfaces
- DNA and DNA-surfactant complexes at solid surfaces
- The role of correlation forces for DNA-cosolute interactions
- Simulations of polyions
- Cross-linked DNA gels and gel particles
- DNA as an amphiphilic polymer
- Lipid-DNA interactions

Covering both theoretical and practical aspects of the subject, *DNA Interactions with Polymers and Surfactants* is an ideal resource for chemists and biochemists working in gene and DNA delivery research in industry and academia, as well as for cell biologists, chemical engineers, molecular biologists, and development biologists in the pharmaceutical industry.

About the Author
Rita S. Dias, PhD, is a postdoctoral scientist in the Department of Physical Chemistry at Lund University, Sweden. Her current research involves the control of DNA condensation using surfactant mixtures and Monte Carlo simulations on the compaction of DNA and interaction of macromolecules with coarse-grained lipid membranes.

Björn Lindman, PhD, has served as Full Professor at Lund University for the past three decades. Dr. Lindman's contributions have included the determination of the structure of microemulsions, the development of novel delivery systems for pharmaceuticals, and new systems for eliminating adhesions in

surgery. He was the first to establish phase diagrams for mixed polymer-surfactant solutions as well as the bicontinuity of microemulsions. Dr. Lindman is the author of hundreds of scientific publications and has coauthored or edited several books, including *Surfactants and Polymers in Aqueous Solution, Second Edition* (Wiley).

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Jamila Coles:

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