DESCRIPTION

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.

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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