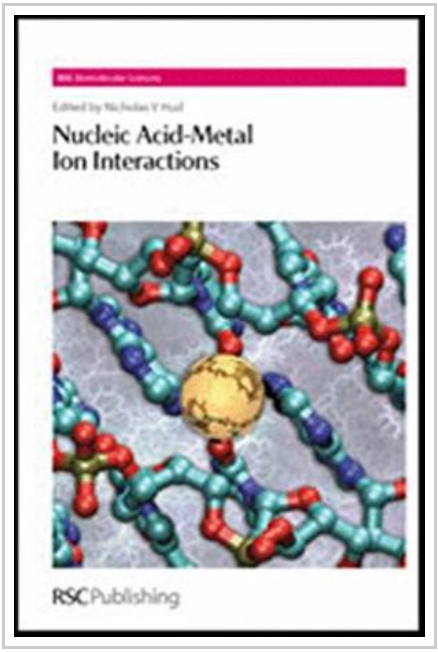

Nucleic Acid-Metal Ion Interactions (Hardback)

By -

Royal Society Of Chemistry, United Kingdom, 2008. Hardback. Book Condition: New. 236 x 158 mm. Language: English . Brand New Book. Natural biochemical processes are routinely being discovered in living cells that involve RNA. Some of these processes, such as RNA interference, are now being exploited for biotechnology and medicinal applications. DNA has also proven in recent years to be more than a passive storehouse of information. For example, non-B-form DNA structures formed by G-rich DNA have been shown to participate in the regulation of gene expression, a discovery that presents new possibilities for drug targets in the genome. The current quest to understand how nucleic acid functions at the most fundamental level requires that we have a detailed understanding of nucleic acid-metal ion interactions. Because RNA and DNA are polyanions the structure and biological function of these biopolymers depends strongly on their association with metal ions. While this intimate connection between metal ions and nucleic function has been appreciated for decades, the noncovalent and dynamic nature of these interactions has continually presented challenges to the development of accurate and quantitative descriptions. Over the past few years the development of solution state spectroscopic techniques and the achievement of high resolution...

Reviews

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