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Nmr Of Proteins And Nucleic
Nuclear magnetic resonance spectroscopy of proteins (usually abbreviated protein NMR) is a field of structural biology in which NMR spectroscopy is used to obtain information about the structure and dynamics of proteins, and also nucleic acids, and their complexes.The field was pioneered by Richard R. Ernst and Kurt Wüthrich at the ETH, and by Ad Bax, Marius Clore, Angela Gronenborn at the ...

Nuclear magnetic resonance spectroscopy of proteins
T 1 and T 2. The decay of RF-induced NMR spin polarization is characterized in terms of two separate processes, each with their own time constants. One process, called T 1, is responsible for the loss of resonance intensity following pulse excitation.The other process, called T 2, characterizes the width or broadness of resonances.Stated more formally, T 1 is the time constant for the physical ...

Relaxation (NMR) - Wikipedia
Molecular Structure Can Also Be Determined Using Nuclear Magnetic Resonance (NMR) Spectroscopy. Nuclear magnetic resonance spectroscopy has been widely used for many years to analyze the structure of small molecules.This technique is now also increasingly applied to the study of small proteins or protein domains. Unlike x-ray crystallography, NMR does not depend on having a crystalline sample ...

Analyzing Protein Structure and Function - Molecular Biology of the ...
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His research has focused on applications of NMR and other biophysical methods to characterize the structural properties and interactions of intrinsically disordered proteins, mechanisms of protein folding and mis-folding, the structural basis of protein-protein and protein-nucleic acid interactions in the regulation of gene expression, and the ...

Intrinsically Disordered Proteins in Cellular Signaling and Regulation
NMR studies of TOTO-1 dye interactions with a double-stranded 8-mer indicate that TOTO-1 dye is a bis-intercalator, with the fluorophores intercalating between the bases and the linker region having interactions in the minor groove (Figure 8.1.3). Binding of the dye partially unwinds the DNA, distorting and elongating the helix.

Nucleic Acid Stains—Section 8.1 - Thermo Fisher Scientific
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