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Nuclear Magnetic Resonance of Biological Systems
State NMR Spectroscopy, E P Vogel and D P Weliky, Biochemistry 2013, 52, 4285-4287 Highlighted on Biochemistry website N uclear magnetic resonance (NMR) spectroscopy in the solid state is a powerful approach to determine atomic-resolution structure and motion in systems for which the molecules do not rapidly tumble Our research focuses on
Nuclear magnetic resonance and spin relaxation in ...
Nuclear magnetic resonance and spin relaxation in biological systemsB Robert G Bryanta,T, Jean-Pierre Korbb aChemistry Department, University of Virginia, PO Box 400319, Charlottesville, VA 22904-4319, USA bLaboratoire de Physique de la Matie`re Condense´e, CNRS UMR 7643, Ecole Polytechnique, 91128 Palaiseau, France Abstract Proton nuclear spin-lattice relaxation in biological systems …
THE NMR STUDIES OF WATE'R IN BIOLOGICAL SYSTEMS
The NMR studies of water illustrate that certain coherent and cumulative orocesses come into effect when biological macromolecules interact with water, either in solution or in biological systems These processes (outlined below) are favoured by the extended, ordered, and complex structure of macromolecules (such as proteins and nucleic acids)
NMR Relaxation Methods in Biological Systems

Innovation with Integrity NMR Relaxation Methods in Biological Systems Daniel Mathieu NMR Applikation Bruker NMR Benutzertagung Frankfurt am Main, 5112018

APPLICATION OF 31P NMR TO MODEL AND BIOLOGICAL ...

NMR spectrum of the biological systems would be consistent with a decreased mobility of the hydro-carbon chain in the biological membranes with respect to th e model bilayer systems Acknowledgements We would like to thank Dr P Edwards for providing the human erythrocyte samples and R Casey for pro-viding the nerve sample The spectrometer was

NMR of Paramagnetic Molecules - sites.psu.edu

Resources • Bertini & Luchinat, "NMR of Paramagnetic Molecules in Biological Systems," 1986, Benjamin/Cummings: Menlo Park ISBN: 0-8053-0780-X • Bertini & Luchinat, "NMR of ...

Macromolecular crowding in biological systems ...

Title: Macromolecular crowding in biological systems: hydrodynamics and NMR methods Created Date: 8/24/2004 6:25:41 PM

Physical Chemistry with Applications to Biological Systems

has a passing familiarity with NMR in biological systems I found this book of much interest and hope it will be widely available to both students and research workers M C Scrutton 347 NASA Images Solar System Collection Ames Research Center Brooklyn Museum Physical chemistry with applications to biological

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Nuclear Magnetic Resonance of Biological Systems

Nuclear Magnetic Resonance of Biological Systems Professor (b 1963) BA, 1985, Swarthmore College; PhD, 1995, Univ of Chicago; Postdoctoral Fellow, 1995-97, National Institutes of Health 517-355-9715, Ext 281 Solid-State NMR Spectroscopy of the HIV gp41 Membrane Fusion Protein Supports Intermolecular Antiparallel b Sheet Fusion

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An Analytical Perspective of NMR Spectroscopy of ...

biological systems On first inspection, it could be argued that this minimizes the utility ofNMR in biological studies Although it will prevent clinical biochemists from studying these species directly, along with 19F,16,17 both 13C NMR and 170 NMRcan be used as non-radioactivetracers in biological studies IS Samples Although instruments can

Manganeseâ enhanced magnetic resonance imaging (MEMRI)

calcium influx into cells and to trace neuronal connections This special issue of NMR in Biomedicine on manganese-enhanced MRI (MEMRI) is aimed at providing the readers of this journal with an extensive review of some of the most prominent applications of MEMRI in biological systems Written by several of the leaders in the field, the