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NMR Relaxation Lecture 5:

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This study shows modifications of
20-MHz NMR water proton

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relaxation rates in ultrahigh dilutions of histamine in water and in saline, at dilution levels higher than C4 (10^{-8}), i.e. beyond the sensitivity of the technique to detect the initial solute. Drastic experimental procedures were applied, especially similarly

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NMR water proton relaxation in unheated and heated ...

The spin lattice relaxation time

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(T1) and spin spin relaxation time (T2) of water protons of normal human and animal tissues are archived to up-date those already published. The mechanisms for...

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T2 relaxation is a complex phenomenon, but at its most fundamental level, it corresponds to a decoherence of the transverse nuclear spin magnetization. Random fluctuations of the local magnetic field lead to random variations in the instantaneous

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NMR precession frequency of
different spins.

Relaxation (NMR) - Wikipedia
NMR Relaxation Enhancement of
Water Protons by Gd-Doped Boron
Nitride Nanotubes. The Journal of
Physical Chemistry C 2014, 118

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(12), 6473-6479. DOI:

10.1021/jp412091t. Weiran Cheng,
Inga E. Haedicke, Joris Nofiele,
Francisco Martinez, Kiran Beera,
Timothy J. Scholl, Hai-Ling
Margaret Cheng, and Xiao-an
Zhang

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Paramagnetic metal complexes as
water proton relaxation ...

Water Histamine NMR relaxation

Ultrahigh dilution Air nanobubbles

We measured 20-MHz R1 and R2
water proton NMR relaxation

rates in ultrahigh dilutions (range

$5.43 \cdot 10^{-8} \text{ M} - 5.43 \cdot 10^{-48} \text{ M}$)

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of histamine in water (Hist-W) and in saline (Hist-Sal), prepared by iterative centesimal dilutions under vigorous agitation in controlled atmospheric conditions.

NMR water proton relaxation in unheated and heated ...

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These fractions of water are characterized with different nuclear magnetic resonance (NMR) relaxation times and are identified with the different parts of tissue water. The water associated with the macromolecules was found to be

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approximately 8% of the total tissue water and not to exchange rapidly with the rest of the intracellular water.

Nuclear Magnetic Resonance
Transverse Relaxation Times of ...
Longitudinal (T_1) and transverse

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(T₂) relaxation times and diffusion coefficient (D) of water protons in diepoxide 1,4-butanediol diglycidyl ether (BDDE)-cross-linked HA hydrogels were analyzed by high-field NMR spectroscopy to distinguish between different

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physicochemical properties.

Hydrogels of different degrees of modification and cross-linking, representing a range of gel content, swelling ability, elastic and viscous behavior were studied, as well as solutions of native HA of ...

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Relaxation and diffusion of water protons in BDDE cross ... enhances the proton relaxation rates of water, referred to as relaxivity, must be sufficient to significantly increase the relaxation rates of the target

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Unheated And Heated tissue. The dose of the complex at which such alteration of tissue relaxation rates occurs must of course be nontoxic. As small as 10-20% increases in $1/T_1$ could be detected by NMR imaging.

Paramagnetic Metal Complexes as

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04-02 T1 on the Microscopic Scale

The relaxation times of pure substances, for instance water, can be easily explained. A living system, however, contains a large number of chemical components, all of which contribute to the

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observed proton magnetic resonance signal. These components possess different relaxation times.

04-02 | Relaxation Times and
Basic Pulse Sequences ...

For when labile protons must be

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observed, there is a "flip-back" version that preserves their signal, even when they are exchanging with the suppressed water signal. PURGE (Pre-saturation Utilizing Relaxation Gradients and Echoes) is another (pre-saturation) solvent suppression technique.

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Comparison of NMR water proton
T1 relaxation times of ...

Analysis of the 1H - 17O dipolar
contribution to the proton
longitudinal relaxation rate in 17O
 O enriched water yields a
correlation time for re-orientation

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of the O-H vector $\tau_{OH} = (1.71 \pm 0.07)$ ps in H₂O at 25 °C.

This result is insensitive to uncertainties in the calculated intermolecular relaxation contribution.

Determination of the Rotational

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Correlation Time of Water...

Water Proton NMR: A Tool for
Protein Aggregation

Characterization. Taraban MB(1),
DePaz RA(2), Lobo B(2), Yu
YB(1). ... we compared

conventional techniques for the
analysis of protein aggregates with

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a novel approach that employs the water proton transverse relaxation rate $R_2(1H_2O)$. We explored differences in the sensitivity of conventional ...

Water Proton NMR: A Tool for
Protein Aggregation ...

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The presence or absence of H₂O coordinated to a paramagnetic center can in principle be monitored by solvent water ¹H NMR, 69 by exploiting the occurrence of a magnetic interaction between the magnetic moments of the unpaired electrons

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and the nuclear magnetic moments of the water protons. When this interaction fluctuates with time, it causes a shortening of the water-proton relaxation times.*

2.4: Coordinated Water and NMR -
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Abstract: The ^{17}O isotopomer of the water-endofullerene $\text{H}_2\text{O}@C_{60}$ displays a remarkable proton NMR spectrum, with six well resolved peaks. These peaks are due to the J-coupling between the water protons and the ^{17}O nucleus, which has spin-5/2. The

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Unresolution of these peaks is enabled by the suppression of water proton exchange by the fullerene cage.

NMR lineshapes and scalar relaxation of the water ...
Unlike currently used analytical

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techniques involving visual observations and/or monitoring of several optical properties using specialized glassware, water proton nuclear magnetic resonance (wNMR) used in this work allows one to analyze samples in their original sealed container

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regardless of its opacity and/or labeling. It was demonstrated that the water proton transverse relaxation rate could be used to monitor in real time the sedimentation process of two widely used aluminum adjuvants ...

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Monitoring of the sedimentation
kinetics of vaccine ...

Water proton NMR detection of
amide hydrolysis and diglycine
dimerization. Chemical
Communications 2018, 54 (51) ,
7003-7006. DOI:

10.1039/C8CC03935F. Gloria

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Brusotti, Enrica Calleri, Raffaella
Colombo, Gabriella Massolini,
Francesca Rinaldi, Caterina
Temporini.

Water Proton NMR: A Tool for
Protein Aggregation ...

Abstract NMR water-proton spin-

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lattice relaxation times were studied as probes of water structure in human red blood cells and red blood cell suspensions. Normal saline had a relaxation time of about 3000 ms while packed red blood cells had a relaxation time of about 500 ms.

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