

## STRUCTURE OF HIGHRESOLUTION NMR SPECTRA%0A

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[High Resolution NMR | ScienceDirect](#)

The book is intended to allow a graduate student, advanced undergraduate, or researcher to understand NMR at a fundamental level, and to see illustrations of the applications of NMR to the determination of the structure of small organic molecules and macromolecules, including proteins. Emphasis is on the study of NMR in liquids, but the treatment also includes high resolution NMR in the solid state and the principles of NMR imaging and localized spectroscopy.

[high resolution nuclear magnetic resonance \(nmr\) spectra](#)

[high resolution nmr spectra](#) This page describes how you interpret simple high resolution nuclear magnetic resonance (NMR) spectra. It assumes that you have already read the background page on NMR so that you understand what an NMR spectrum looks like and the use of the term "chemical shift".

[High-Resolution NMR Techniques in Organic Chemistry ...](#)

It begins with a brief historical perspective on the development of high-resolution nuclear magnetic resonance (NMR) spectroscopy. It then explains the broad contents of each chapter and describes the nomenclature and graphical representations used throughout the text for the description of NMR techniques. It finishes with guidance on how one might employ these techniques.

[High-resolution NMR as a Structure Assessment Tool for ...](#)

[High-resolution NMR as a Structure Assessment Tool for Protein Therapeutics](#) John P. Marino, Luke Arbogast, Robert G. Brinson *Biomolecular Structure & Function Group*

[High-resolution NMR structure of the antimicrobial peptide ...](#)

The solution structure of PG-1 (PDB: 1PG1) was established by 2D NMR spectroscopy (Fahrner et al., 1996; Mant et al., 2006) and its form the  $\beta$ -hairpin conformation, which is composed of 18 amino acids (RGGRL-CYCRR-RPCVC-VGR) with a high content of cysteine (Cys) and positively charged arginine (Arg) residues. Six arginine residues allow PG-1 to interact with surfaces of lipid bilayers composed of negatively charged headgroups via strong electrostatic interactions.

[High-resolution NMR protein structure](#)

NMR solution of protein in vitro vs. in vivo. Red: NMR solution of protein in living cell. Blue: NMR solution of protein in vitro.

### Rapid Determination of High-resolution Protein Structures ...

determination of high-resolution protein structure of globular proteins, such as, potassium channel blocker, Kaliotoxin existing in free form and also in complex with KcsA-Kv1.3, from solid-state NMR data could be obtained.

### High-Resolution Solid-State NMR Structure of a 17.6 kDa ...

The obtained structure is a high resolution one, with backbone rmsd of 1.0-0.2 Å, and is in good agreement with the X-ray structure (rmsd to X-ray 1.3 Å). The proposed strategy, which may be generalized for nonmetalloproteins with the use of paramagnetic tags, represents a significant step ahead in protein structure determination using solid-state NMR.

### High-resolution structure of a Shigella type III secretion ...

The high-resolution MxiH structure determined here is consistent with the needle architecture established previously 13,14,16 consisting of 5.6 subunits per turn (N=11.2) of a 23.5-Å-pitch helix. The radius of the needle is 23.5 Å, consistent with previous EM studies 40.

### Structure of Polypiperylene Chain Segments According to ...

polymer science series a vol. 48 no. 6 2006 structure of polypiperylene chain segments 603 140 132 124 116 ~ ~ 44 36 28 20 12