



## **Isotope labeling in Biomolecular NMR: 992 (Advances in Experimental Medicine and Biology)**

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NMR spectroscopy has undergone a revolution in recent years with the advent of several new methods overcoming the problems of sensitivity and resolution. Recent developments in biotechnology have made it easier and economical to introduce  $^{13}\text{C}$ ,  $^{15}\text{N}$  and  $^2\text{H}$  into proteins and nucleic acids. At the same time, there has been an explosion in the number of NMR experiments that utilize such isotope labeled samples. Thus, a combination of isotopic labeling and multidimensional, multinuclear NMR has opened up new avenues for structural studies of proteins, nucleic acids and their complexes.

This book will focus on recent developments in isotope labeling methods for structural studies of small molecules, peptides, proteins and nucleic acids. The aim of the book is to serve as a compendium of isotope labeling for the biomolecular NMR community providing comprehensive coverage of the existing methods and latest developments along with protocols and practical hints on the various experimental aspects. The book will cover a wide range of topics in isotope labeling under one title including emerging areas of metabolonomics and solid state NMR.

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