



BioNMR in Drug Research (Methods and Principles in Medicinal Chemistry)

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The vast progress made in the investigation of biomolecules using NMR has only recently been rewarded with the Nobel Prize for Kurt Wüthrich. Edited by a former coworker of Wüthrich, this book presents the theoretical background on NMR of biomolecules, plus the use of NMR techniques in determining the structures of proteins and nucleic acids.

BioNMR spectroscopy offers a universal tool for examining the binding of an active substance to its target protein. Its use thereby benefits the rational development of drugs. This interaction can now be investigated in a hitherto unparalleled precision and displayed in 3D - an important prerequisite for the targeted development of new active substances. The latest methods for characterizing substance-receptor complexes are demonstrated backed by many case studies from pharmaceutical research. Thus it comes as no surprise that a large number of the authors are working for leading pharmaceutical companies. With its successful mixture of basic information and application strategies, coupled with many real-life examples, this is an invaluable guide for both NMR spectroscopists and pharmaceutical researchers.

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Editorial Review

Review

"The editor has managed to recruit a team of well-recognized experts as authors for this book, thereby ensuring a high standard of reliable and objective reporting. The book is not only of interest to specialists in pharmaceutical research and development, but will certainly also be a valuable resource for everyone concerned with the latest methods of NMR spectroscopy and their application to biomolecules" (Angewandte Chemie Int. Ed.)

"The book presents a good overview of state-of-the-art NMR techniques in drug discovery. [...] It is suggested reading for people involved in pharmaceutical research as well as academic researchers with an interest in drug discovery." (ChemBioChem)

"...certainly a valuable resource for everyone concerned with the latest methods of NMR spectroscopy and their applications..." Angewandte Chemie Int. Edition

From the Back Cover

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