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摘要: 本文结合本实验室近年来的部分工作综述了磁共振波谱在生物医学研究中的应用。其应用范围涉及生物大分子结构、活体磁共振和磁共振成像等研究领域;其研究对象涉及生物样品提取物、培养细胞、离体组织器官、活体动物乃至人体的各个层次。磁共振波谱作为无损研究生化过程和生理病理机制的工具,为基础医学、临床医学遇到的难题的解决提供了有利条件。

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Applications of Magnetic Resonance Spectroscopy to Biomedical Research

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Abstract: Applications of magnetic resonance spectroscopy (MRS) to biomedical research is reviewed. Although the invention of MRS is only 50 years and its applications to biomedical research is 20 years, it has showed great potentials. The aspects of its applications involve structure of biopolymers in solution, in vivo NMR and magnetic resonance imaging. The range of its applications involves extracts of biological samples, cultured cells, isolated tissues and organs, experimental animals and human. MRS is the un

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