

MRI spectroscopy

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ABSTRACT

Magnetic Resonance Spectroscopy (MRS) has emerged as a powerful biomedical imaging tool, offering unique insights into the molecular composition of tissues and organs. While magnetic resonance imaging (MRI) provides detailed anatomical images, MRS goes a step further by revealing biochemical information about tissues. Through spectral analysis, MRS generates valuable data about metabolite concentrations, chemical environments, and metabolic pathways. In this talk, I will explain the fundamental principles of MRS and explore its diverse applications in biomedicine.