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Magnetic resonance of biomolecules By P. F. Knowles, D

Nuclear magnetic resonance (NMR) spectroscopy exploits a property of the nucleus known as nuclear spin, which exhibits angular momentum and as such generates a local magnetic field that can be influenced by a larger static external field.

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Introduction to biomolecular NMR spectroscopy

Electron Spin Resonance of Biomolecules 3 Electron spin resonance (ESR) refers to spectroscopy of unpaired electrons, and is sometimes called electron paramagnetic resonance (EPR) or electron magnetic resonance (EMR). The theoretical bases of ESR spectroscopy are similar to those of nuclear magnetic resonance (NMR), except that an electron spin, rather than a nuclear spin, is the focus.

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magnetic field relative to the symmetry axis of the NV center making the EPR spectrum sensitive to fluctuations of the orientation of the diamond crystal. This can be used to report on the local flexibility of the biomolecule to which the spin probe is attached, such as is done with EPR studies of nitroxide labeled biomolecules.

Article type: Research Article Title: NV Center Electron

An Artificial Neural Network (ANN) to Recognize Bio-Molecules Based on their Nuclear Magnetic Resonance (NMR) Spectra Each training session took between 3 and 12 hours, depending on other design parameters such as the number of

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