

What Life Scientists Should Know About Molecular Imaging

MR Fundamentals for Life Scientists

Introduction to Magnetic Resonance II: Macroscopic and Microscopic Magnetization Effects

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Learning Objectives:

- Understand the principles of magnetic susceptibility at both the macro and micro scale
- Understand the physical basis of relaxation
- Understand the physical basis of chemical shifts and J-coupling

This presentation will cover the following areas in magnetic resonance (i) Curie law polarization; (ii) External vs. internal magnetic fields; (iii) Spectral density vs. relaxation; (iv) Chemical shifts; (v) Coupling constants.

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