

Macromolecular crystallography: deciphering the structure, function and dynamics of biological molecules

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20417856&lokasi=lokal>

Abstrak

This volume is a collection of the contributions presented at the 42nd Erice Crystallographic Course whose main objective was to train the younger generation on advanced methods and techniques for examining structural and dynamic aspects of biological macromolecules. The papers review the techniques used to study protein assemblies and their dynamics, including X-ray diffraction and scattering, electron cryo-electron microscopy, electro nanospray mass spectrometry, NMR, protein docking and molecular dynamics. A key theme throughout the book is the dependence of modern structural science on multiple experimental and computational techniques.