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X-ray crystallography (XRC) is a technique used for determining the atomic and molecular structure of a crystal, in which the crystalline structure causes a beam of incident X-rays to diffract into many specific directions. Multi-wavelength anomalous diffraction (sometimes Multi-wavelength anomalous dispersion; abbreviated MAD) is a technique used in X-ray crystallography that facilitates the determination of the three-dimensional structure of biological macromolecules (e.g. DNA, drug receptors) via solution of the phase problem. Protein Crystallography Important points and definitions: Crystal: a regular repeat of molecules, usually with some sort of internal rotational symmetry. Rigaku nano3DX is a true X-ray microscope (XRM) with ultra-wide field of view, 25X larger volume than comparable systems, and three X-ray wavelengths for different matrices., Phasing In Crystallography.

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