

MILESTONES TIMELINE

pre 1912	Periodicity (Milestone 1)
1912	von Laue experiment (Milestone 2)
1913	Bragg's law (Milestone 3)
1913–1916	X-Ray spectrometer and powder diffraction (Milestone 4)
1923–1928	First organic molecules (Milestone 5)
1930	Minerals and silicates (Milestone 6)
1934	Direct methods (Milestone 7)
1949	Neutron diffraction (Milestone 8)
1951	Absolute configuration of tartaric acid (Milestone 9)
1951–1953	Ferrocene (Milestone 10)
1953	α -helix, β -sheet and DNA (Milestone 11)
1960	First atomic-level protein structure (Milestone 12)
1962	Molecular replacement (Milestone 13)
1968	Electron crystallography (Milestone 14)
1969	Rietveld refinement (Milestone 15)
1972	Large-scale facilities (Milestone 16)
1970s	Open software and crystallographic databases (Milestone 17)
1978–1981	Icosahedral virus structures (Milestone 18)
1980s	Anomalous diffraction (Milestone 19)
1984	Quasicrystals (Milestone 20)
1988	Resonant magnetic X-ray diffraction (Milestone 21)
1999	Porous artificial crystals (Milestone 22)
1973–2004	Challenging nucleic acid structures (Milestone 23)
1985–2007	Challenging protein structures (Milestone 24)
2000s	X-ray free electron lasers (Milestone 25)

