X-Ray Structure of the Nucleosome Core Particle, NCP146, at 2.0 Å Resolution

Primary Citation
Solvent Mediated Interactions in the Structure of the Nucleosome Core Particle at 1.9 Å Resolution
Davey, C.A., Sargent, D.F., Luger, K., Maeder, A.W., Richmond, T.J.
PubMed: 12079350
DOI: 10.1016/S0022-2836(02)00386-8

PubMed Abstract:
Solvent binding in the nucleosome core particle containing a 147 base pair, defined-sequence DNA is characterized from the X-ray crystal structure at 1.9 Å resolution. A single-base-pair increase in DNA length over that previously results in substantially improved clarity ...

Publication Details
MeSH Terms (Primary Citation)
PubMed ID: 12079350
MeSH Terms: Amino Acid Sequence, Animals, Base Sequence, Binding Sites, Chlorides, Crystallography, X-Ray, DNA, DNA, DNA, Satellite, DNA-Binding Proteins, Histones, Humans, Hydrogen Bonding, Models, Molecular, Molecular Sequence Data, Nucleic Acid Conformation, Nucleosomes, Protein Conformation, Protein Structure, Quaternary, Solvents, Water, Xenopus laevis

Literature Network
iHOP: 100049126 GeneRIF: 100049126
iHOP: 446588 GeneRIF: 446588
iHOP: 447787 GeneRIF: 447787
iHOP: 734746 GeneRIF: 734746

Related Citations in PDB Entry (REMARK 1)
Crystal structure of the nucleosome core particle at 2.8 Å resolution
Luger, K., Maeder, A.W., Richmond, R.K., Sargent, D.F., Richmond, T.J.

Information provided by BioLit:
PubMedCentral articles found to contain 1KX3

Alteration of the nucleosomal DNA path in the crystal structure of a human nucleosome core particle
Yasuo Tsunaka, Naoko Kajimura, Shin-ichi Tate, Kosuke Morikawa
BioLit: 1150222 PubMedCentral: 1150222 PubMed: 15951514
DOI: 10.1093/nar/gki663