

Cover image

The nucleosome is the basic repeating unit of eukaryotic chromatin, comprising 146 base pairs of DNA wrapped around a histone octamer consisting of two copies each of the histone proteins H2A, H2B, H3 and H4. Nucleosome remodelling through structural modifications of the DNA and histone proteins lies at the heart of epigenetic gene regulation. This image of the nucleosome core particle was generated by NGL Viewer (Rose AS, Bradley AR, Valasatava Y, Duarte JM, Prlic A, Rose PW. 2016. Web-based molecular graphics for large complexes. *ACM Proceedings of the 21st International Conference on Web3D Technology (Web3D '16)*: 185-186) based on the PDB structure 1KX5 (Davey CA, Sargent DF, Luger K, Maeder AW, Richmond TJ. 2002. Solvent mediated interactions in the structure of the nucleosome core particle at 1.9 Å resolution. *J. Mol. Biol.* **319**, 1097-113).

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