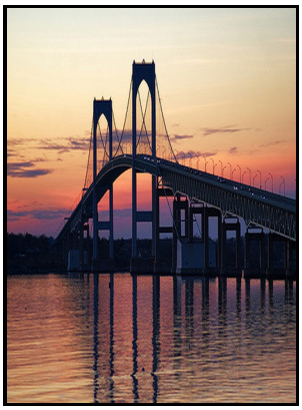
Three-dimensional electron microscopy of macromolecular assemblies

Academic Press - Figure 3.2 from Three



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Three-dimensional imaging in biology.Three-dimensional electron microscopy of macromolecular assemblies
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Notes: Includes bibliographical references (p. 293-331) and index.
This edition was published in 1996

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Electron Microscopy of Macromolecular Assemblies

Lander GC, Stagg SM, Voss NR, Cheng A, Fellmann D, Pulokas J et al. Comparison of Segger and other methods for segmentation and rigid-body docking of molecular components in Cryo-EM density maps. Proc Natl Acad Sci USA 2012;109:14870-5.

Electron Microscopy of Macromolecular Assemblies

Jonic S, Sorzano CO, Boisset N. J Mol Biol 2003; 333:721-45. Humphrey W, Dalke A, Schulten K.

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The modular structure of the 26S proteasome holocomplex is a recent example of the use of integrative approach Lasker et al. At these resolutions secondary structure elements SSE can be identified with help of component crystal structures or comparative models and the secondary structure elements α-helices and β-sheets appear as straight rods and curved plates respectively and loops as curved rods Abeysinghe et al.

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Rev Sci Instrum 1973;44: 1546-7.

2011 Three Dimensional Electron Microscopy Conference GRC

Combining electron microscopic with Xray crystallographic structures. We focus on single particle analysis SPA — a tool that works with electron microscopy, which has laid its foundation in 1970s and started gaining the attention of more researchers since 1995 Frank, 2009. These studies are very much important to understand the structure-function relationships of the macromolecules.

Figure 3.2 from Three

Rossmann MG, Bernal R, Pletnev SV. It has many advantages over traditional techniques such as better signal to noise ratio, better stability of the specimen, rapid collection and analysis of images, reduced radiation damage and lower range of sample size. J Mol Biol 2001; 308:1033-44.

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