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摘要：本文简要介绍了蛋白质电子显微术的基本原理和方法,包括低温电镜术和三维重构方法,以及该技术在研究膜蛋白二维晶体、二十面体对称性病毒和非对称性单颗粒蛋白质分子或复合物结构上的应用。随着分辨率的不断提高,蛋白质电子显微术已成为蛋白质结构测定的一种手段。

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Electron Microscopy of Protein Structures

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Abstract: Principles and methods for electron microscopy of protein structures, including electron cryo-microscopy and methods for 3D reconstruction, are briefly described together with its applications in the studies on structures of the 2D crystal of the plant light-harvesting complex, hepatitis B virus core protein and E. coli ribosome. With the improvement of the resolution attainable, electron microscopy has been emerging as a technique for determining protein structures in addition to X-ray crystallography and

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