

Electron Crystallography Of Biological Macromolecules

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121-2 Electron Microscopy

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Electron Crystallography Of Biological Macromolecules

electron paramagnetic resonance (EPR) and NMR dynamics. Molecular movements and functions Biological macromolecules such as proteins and nucleic acids perform crucial tasks that sustain life.

Structural biology in motion

Third, structural biology is easier to do than it was: the processes of structure determination — X-ray crystallography, nuclear magnetic resonance, electron microscopy, electron crystallography ...

Journal evolution

Many important biological processes proceed through transient ... (i.e. 'dark') to conventional biophysical techniques (including crystallography, cryo-electron microscopy and single molecule ...

Dr G. Marius Clore CSci CChem FRSC

My research interests centre on structural studies of proteins and nucleic acids primarily by X-ray crystallography ... SAXS and electron microscopy. The work provides detailed 3-dimensional insights ...

Dr John Rafferty

How is crystallography involved in developing drugs? Drugs interact with particular protein molecules in our bodies. You develop drugs by understanding the biology of a particular protein molecule and ...

Crystal Clear

Areas of strength include X-ray crystallography, NMR spectroscopy, electron microscopy, bioinformatics, computational biology and biophysics, chemical biology, enzymology, and biofluorescence ...

Biomolecular Structure and Biophysics

Electrochemistry, CD, EPR and magnetic properties of extended and molecular systems for thermal & photostimulated energy- and electron-transfer ... a large number of physiologically important ...

Anthony W. Addison, PhD

Besides allowing researchers to study biological molecules under physiologically relevant conditions, the new method has other advantages. For example, X-ray crystallography and cryo-electron ...

New super-resolution microscopy method approaches the atomic scale (w/video)

Researchers in the division use a variety of biochemical and biophysical techniques to understand protein structures, with a particular focus on X-ray crystallography and electron microscopy. By ...

Division of Structural Biology

The UAB Structural Biology Program (SBP) brings together investigators focused on determining structures of macromolecules ... core technologies of X-ray Crystallography (X-ray), Nuclear Magnetic ...

Promoting cutting-edge research in structural biology through research, education and technology development.

The experimental tools we employ range from cryo-electron microscopy and x-ray crystallography ... biology of pathways that control cell growth and maintain the integrity of the genome. Alexandros ...

Structural Biology Program

Besides allowing researchers to study biological molecules under physiologically relevant conditions, the new method has other advantages. For example, X-ray crystallography and cryo-electron ...

New computational technique greatly increases the resolution of atomic force microscopy

Besides allowing researchers to study biological molecules under physiologically relevant conditions, the new method has other advantages. For example, X-ray crystallography and cryo-electron ...

New Super-Resolution Atomic Force Microscopy Reveals Atomic-Level Detail

However, now more than ever, electromagnetic radiation is also crucial in studying the physical, environmental and biological phenomena ... energy equal to a billion electron volts.

Take a tour of the synchrotron, where electrons reach near light-speed

In this case, the key to success was using integrative structural biology, in which data obtained using different methods -cryo-electron microscopy, X-ray crystallography, mass spectrometry and ...

Researchers determine molecular structure of bacterial protein complex critical for tuberculosis

Besides allowing researchers to study biological molecules under physiologically relevant conditions, the new method has other advantages. For example, X-ray crystallography and cryo-electron ...

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