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~~Lecture | Cryo-EM: Amazing 3-D Views~~

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Seminar 11 (John Miao, UCLA),

Beyond Crystallography: CDI and

AET, May 14, 2021 *Looking at*

*Molecules: The electron cryo-microscopy
revolution at The MRC LMB Biological*

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/ SEM animation ~~Amazing Electron~~

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~~Banerjee~~ ~~KSBS, IIT Delhi~~ Electron

Microscopy (TEM and SEM) **Kurt**

*Wüthrich - X-Ray Cristallography, Cryo-
EM and Structural Biology: Historical
Highlights*

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electron paramagnetic resonance (EPR)
and NMR dynamics. Molecular
movements and functions Biological

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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 ...

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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

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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)

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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

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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 ...

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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
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Researchers determine molecular structure
of bacterial protein complex critical for

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