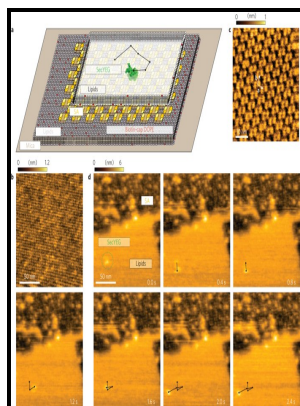


Cryo-electron microscopy of membrane proteins; lipid bilayer supports and vacuum-cryo-transfer

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-Cryo-electron microscopy of membrane proteins; lipid bilayer supports and vacuum-cryo-transfer

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Cryo

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Cryo

Membrane proteins are important research targets for basic biological sciences and drug design, but studies of their structure and function are considered difficult to perform. Until recently, cryo-electron microscopy could not deliver high-resolution structures of membrane proteins, but recent developments in transmission electron microscope technology and in the image processing of single particles imaged in the microscope have revolutionized the field, allowing high resolution structures to be obtained. Sample preparations that sandwich the 2D crystals between symmetrical carbon films reduce the beam-induced specimen drift, and the flatness of the preparations can be optimized by the choice of the grid material and the preparation protocol.

Visualization of membrane protein domains by cryo

Identification of a protein binding site on the surface of the alphavirus nucleocapsid and its implication in virus assembly. Beam-induced specimen drift and lack of specimen flatness can severely affect the attainable resolution of images for tilted samples.

Cryo

The CCEMMP is supported by industry partners Thermo Fisher Scientific, Servier, AstraZeneca, Pfizer, Dimerix Biosciences, Catalyst Therapeutics, Astex Pharmaceuticals, Novo Nordisk, Sanofi-Aventis, Genentech, BioCurate Pty Ltd, FB Rice Pty Ltd, and Clarivate Analytics Ltd. PMID: 31945320 Free PMC article.

Cryo

Structures of immature flavivirus particles.

PhD Scholarships in Cryo

This review has two objectives: first, to provide a personal historical background to describe how we came to develop the cryo-electron microscope and second, to discuss some of the technology required for the structural analysis of membrane proteins based on cryo-electron microscopy. PhD Scholarships - ARC Industrial Transformation Training Centre for Cryo-electron Microscopy of Membrane Proteins Job No.

PhD Scholarships in Cryo

Casadei CM, Tsai CJ, Barty A, Hunter MS, Zatsepin NA, Padeste C, Capitani G, Benner WH, Boutet S, Hau-Riege SP, Kupitz C, Messerschmidt M, Ogren JI, Pardini T, Rothschild KJ, Sala L, Segelke B, Williams GJ, Evans JE, Li XD, Coleman M, Pedrini B, Frank M.

Visualization of membrane protein domains by cryo

Cryo-electron microscopy reconstruction of partially symmetric objects. .

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