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proteins, representing nearly 40% of all

proteins, are key components of cells

involved in many cellular processes, yet

only a small number of their structures

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New methods of determining the structure of membrane proteins using lipidic cubic phase (LCP) microcrystals and microcrystal electron diffraction (MicroED) are described in the new study appearing on the cover of the Cell Press journal, Structure [credit: Jason Drees for the Biodesign Institute at Arizona State University].

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For membrane proteins, the "given environment" of the lipid bilayer is essential for preserving native structure and function. Membrane protein structure determination by X-ray diffraction and solution NMR requires proteins dissolved in detergents because lipid bilayers are incompatible with crystallization and solubilization.

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The two principal experimental methods for structure determination, X-ray crystallography and solution nuclear magnetic resonance (NMR) spectroscopy, work well for the globular proteins of the cytoplasm or periplasm, and have contributed more than 7 000 protein structures to the Brookhaven National Laboratories Protein Data Bank; however, the fact that only 1% of the protein structures in the Data Bank correspond to membrane proteins reflects the significant challenge posed by this class of ...

NMR structural studies of membrane proteins

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