

Resource Summary Report

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UCSD Center for NMR Spectroscopy and Imaging of Proteins

RRID:SCR_001401

Type: Tool

Proper Citation

UCSD Center for NMR Spectroscopy and Imaging of Proteins (RRID:SCR_001401)

Resource Information

URL: <http://nmrresource.ucsd.edu/>

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Description: Biomedical technology research center that develops new technology for NMR spectroscopy and makes it available to the biomedical research community for structure determination of proteins in biological supramolecular assemblies, such as membrane proteins or virus particles. The principal applications are to membrane-associated proteins; however, the approach is generally applicable to polypeptides that cannot be prepared in forms suitable for X-ray crystallography or multidimensional solution NMR spectroscopy. As a result, there are also applications to viruses and other biological systems. The principal instrumentation consists of high-field NMR spectrometers dedicated to high-resolution solid-state NMR spectroscopy. The spectrometers are capable of the full-range of multiple-resonance experiments on stationary and spinning samples; however, the major emphasis is on methods that utilize mechanically or magnetically oriented samples. Development encompasses preparation of samples, including: * Expression and purification of membrane proteins * Design and construction of instrumentation, especially probes * Implementation of new pulse sequences and other experimental protocols for solid-state NMR spectroscopy * Calculations for the processing of experimental data and protein structure determination from the orientational constraints derived from these data

Abbreviations: NMR Resource at UCSD

Synonyms: Center for NMR Spectroscopy and Imaging of Proteins, Resource for NMR Molecular Imaging of Proteins

Resource Type: training resource, access service resource, biomedical technology research center, service resource

Keywords: nmr spectroscopy, structure, protein, nmr spectrometer, expression, purification, membrane protein, probe, pulse sequence, virus particle

Funding: NIBIB P41EB002031

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: UCSD Center for NMR Spectroscopy and Imaging of Proteins

Resource ID: SCR_001401

Alternate IDs: nlx_152626

Record Creation Time: 20220129T080207+0000

Record Last Update: 20260820T054322+0000

Ratings and Alerts

No rating or validation information has been found for UCSD Center for NMR Spectroscopy and Imaging of Proteins.

No alerts have been found for UCSD Center for NMR Spectroscopy and Imaging of Proteins.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.