Resource Summary Report

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MIT/ Harvard Center for Magnetic Resonance

RRID:SCR_001412
Type: Tool

Proper Citation

MIT/ Harvard Center for Magnetic Resonance (RRID:SCR_001412)

Resource Information

URL: http://web.mit.edu/fbml/cmr.shtml#

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Description: Biomedical technology research center designated as a biotechnology nuclear magnetic resonance (NMR) resource that hosts research efforts into cancer, neurological diseases, and many other areas. The heart of the 900 MHz magnetic resonance instrument is a superconducting magnet with a field strength of 21 Tesla, the highest field currently available for magnetic resonance spectroscopy, roughly 400,000 times stronger than the earth's magnetic field. Magnetic resonance is a powerful tool for determining the structure of molecules, and has proven especially useful for elucidating the role of proteins in biological processes and diseases. The state of the art facility includes two 17.6 T magnets with a third to be delivered in 2000. With multiple 17.6 T NMR magnets, the CMR is a valuable resource in New England and will continue to serve this research community for years to come. The advent of high magnetic fields has placed demands on the hardware needed to run experiments in these very high fields. The CMR has recently produced new advances in NMR probe technology, in electron magnetic resonance, and in using microwaves to enhance NMR experiments. The results are powerful new methods for performing biological research and they are looking forward to the continued growth of these exciting new areas!

Abbreviations: CMR

Synonyms: MIT/ Harvard Center for Magnetic Resonance 900 MHz NMR Facility, MIT/ Harvard Center for Magnetic Resonance (CMR) 900 MHz NMR Facility, MIT/Harvard Center for Magnetic Resonance

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

Keywords: magnet, spectrometer, nuclear magnetic resonance, magnetic resonance spectrometer

Funding: NIBIB 5P41EB002026-41

Resource Name: MIT/ Harvard Center for Magnetic Resonance

Resource ID: SCR_001412

Alternate IDs: nlx_152635

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Ratings and Alerts

No rating or validation information has been found for MIT/ Harvard Center for Magnetic Resonance.

No alerts have been found for MIT/ Harvard Center for Magnetic Resonance.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.