

# Resource Summary Report

Generated by PRECISE-TBI on Aug 9, 2026

## MIT/ Harvard Center for Magnetic Resonance

RRID:SCR\_001412

Type: Tool

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### Proper Citation

MIT/ Harvard Center for Magnetic Resonance (RRID:SCR\_001412)

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### 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:** biomedical technology research center, access service resource, training resource, 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

**Record Creation Time:** 20220129T080207+0000

**Record Last Update:** 20260808T190545+0000

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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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.