

Resource Summary Report

Generated by ASWG on Aug 2, 2026

MINC

RRID:SCR_002391

Type: Tool

Proper Citation

MINC (RRID:SCR_002391)

Resource Information

URL: <http://www.bic.mni.mcgill.ca/software/minc/>

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Description: A medical imaging data format and an associated set of tools and libraries including a 3 level API for medical image analysis with a particular focus on the needs of research. There are also a number of tools including Registration and Non-Uniformity correction.

Abbreviations: MINC

Synonyms: MINC - Medical Image NetCDF, Medical Imaging NetCDF

Resource Type: software resource, software application, data processing software, image analysis software

Keywords: reusable library, c, file format, fortran, information specification, minc, minc2, magnetic resonance, os independent, perl, sh/bash, unix shell

Availability: Free, Available for download, Freely available

Resource Name: MINC

Resource ID: SCR_002391

Alternate IDs: nlx_155794

Alternate URLs: <http://www.nitrc.org/projects/minc>

License: MINC Licence, (BSD'ish), <http://www.nitrc.org/include/glossary.php#527>

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260801T190831+0000

Ratings and Alerts

No rating or validation information has been found for MINC.

No alerts have been found for MINC.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 122 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Gérin-Lajoie A, et al. (2026) Ex vivo human brain volumetry: Validation of MRI measurements. *Magnetic resonance in medicine*, 95(2), 853.

Livingston NR, et al. (2025) Diazepam modulates hippocampal CA1 functional connectivity in people at clinical high-risk for psychosis. *Psychological medicine*, 55, e230.

Lupinsky D, et al. (2025) Resting-state fMRI reveals altered functional connectivity associated with resilience and susceptibility to chronic social defeat stress in mouse brain. *Molecular psychiatry*, 30(7), 2943.

Trudel L, et al. (2025) APOE ϵ 4 potentiates tau related reactive astrogliosis assessed by cerebrospinal fluid YKL40 in Alzheimer's disease. *Communications medicine*, 5(1), 484.

Trudel L, et al. (2025) Implication for Clinical Trials From Longitudinal Tau-PET Accumulation Across Biological Alzheimer Disease Stages. *Neurology*, 105(8), e214111.

Milella MS, et al. (2025) Quantification of [11C]ABP688 Binding to mGluR5 in Human Brain using Cerebellum as Reference Region: Biological Interpretation and Limitations. *Current neuropharmacology*, 23(9), 1081.

Kunchok A, et al. (2025) Volumetric MRI Comparing Longitudinal Change in MOGAD to NMOSD, MS and Healthy Controls, and Disability Associations. *Annals of neurology*, 98(5), 1044.

Kang S, et al. (2025) White matter hyperintensities and cholinergic degeneration as Lewy body disease. *Annals of clinical and translational neurology*, 12(1), 97.

Gaj S, et al. (2025) Subject-Based Transfer Learning in Longitudinal Multiple Sclerosis Lesion Segmentation. *Journal of neuroimaging : official journal of the American Society of Neuroimaging*, 35(1), e70024.

Lambe J, et al. (2025) Association of Spinal Cord Radiomic Features and Disability in Multiple Sclerosis. *Journal of neuroimaging : official journal of the American Society of Neuroimaging*, 35(5), e70089.

Machado LESF, et al. (2025) NMR study of the interaction between MinC and FtsZ and modeling of the FtsZ:MinC complex. *The Journal of biological chemistry*, 301(3), 108169.

Cho J, et al. (2025) Optogenetic calcium modulation in astrocytes enhances post-stroke recovery in chronic capsular infarct. *Science advances*, 11(5), eadn7577.

Ziasaeedi N, et al. (2025) Radiomics-based kidney lesion classification: Mitigating batch effect with nested combat harmonization. *Medical physics*, 52(9), e18070.

Yin H, et al. (2025) A FtsZ cis disassembly element acts in Z-ring assembly during bacterial cell division. *Nature communications*, 16(1), 5194.

Raeesi S, et al. (2025) Vascular risk factors mediate the relationship between education and white matter hyperintensities. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(12), e70972.

Clarke N, et al. (2025) High-precision machine learning identifies a reproducible functional connectivity signature of autism spectrum diagnosis in a subset of individuals. *GigaScience*, 14.

Germann J, et al. (2025) Biomarker changes associated with fornix deep brain stimulation in Alzheimer's disease. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(6), e70394.

Mi J, et al. (2025) Contrasting Trends in Plant Diversity and Soil Carbon Mineralization Under Precipitation-Driven Vegetation and Soil Carbon Dynamics in the Mongolian Plateau. *Ecology and evolution*, 15(7), e71806.

Mota APZ, et al. (2024) Unzipped genome assemblies of polyploid root-knot nematodes reveal unusual and clade-specific telomeric repeats. *Nature communications*, 15(1), 773.

Li J, et al. (2024) How to play the role of fiscal subsidies? Based on the research of photovoltaic industry in China--Based on SBM-DEA and FGLS methods. *Heliyon*, 10(12), e32980.