Resource Summary Report

Generated by SPARC SAWG on Aug 9, 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, image analysis software, data processing 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: 20260808T190308+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 126 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Senthil S, et al. (2026) Quantitative Choroid Plexus Gadolinium Enhancement Is Related to Diffuse Brain Tissue Injury in Multiple Sclerosis. Journal of neuroimaging : official journal of the American Society of Neuroimaging, 36(2), e70132.

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

Lajoie I, et al. (2026) Data-driven subtyping and staging of ALS: A multicenter, longitudinal, deformation-based morphometry study. Imaging neuroscience (Cambridge, Mass.), 4.

Pruitt A, et al. (2026) Estradiol modulates neuronal network hyperexcitability in select NDD risk genes. bioRxiv : the preprint server for biology.

Trudel L, et al. (2025) APOE ?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.

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.

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.

Endres D, et al. (2025) MR spectroscopic imaging and its association with EEG, CSF, and psychometric/neuropsychological findings in patients with suspected autoimmune psychosis spectrum syndromes. Acta neuropsychiatrica, 37, e88.

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.

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.

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

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.

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

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

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.

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.

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.