Resource Summary Report

Generated by NIF on Sep 2, 2026

Brain Intensity AbNormality Classification Algorithm

RRID:SCR_024928
Type: Tool

Proper Citation

Brain Intensity AbNormality Classification Algorithm (RRID:SCR_024928)

Resource Information

URL: https://fsl.fmrib.ox.ac.uk/fsl/fslwiki/BIANCA

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Description: Software tool for automated segmentation of white matter hyperintensities. Classifies image???s voxels based on their intensity and spatial features, and the output image represents the probability per voxel of being WMH. Flexible in terms of MRI modalities to use and offers different options for weighting spatial information, local spatial intensity averaging, and different options for choice of number and location of training points.

Abbreviations: BIANCA

Synonyms: BIANKA:Brain Intensity AbNormality Classification Algorithm

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

Defining Citation: PMID:27402600

Keywords: images voxels classification, automated segmentation of white matter hyperintensities, white matter hyperintensities,

Funding: NIHR Oxford Biomedical Research Centre ;
UK Stroke Association ;
Wellcome Trust ;
Wolfson Foundation

Availability: Free, Freely available

Resource Name: Brain Intensity AbNormality Classification Algorithm

Resource ID: SCR_024928

Record Creation Time: 20240129T210604+0000

Record Last Update: 20260829T183348+0000

Ratings and Alerts

No rating or validation information has been found for Brain Intensity AbNormality Classification Algorithm.

No alerts have been found for Brain Intensity AbNormality Classification Algorithm.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Katona M, et al. (2026) DenseLes: slice-wise dense network for multiple sclerosis lesion segmentation and classification. Frontiers in neurology, 17, 1704317.

Xu Z, et al. (2025) Association of decreased visibility on deep medullary vein gray-matter volume mediated by increased extracellular fluid in the white matter of patients with cerebral small vessel disease. Quantitative imaging in medicine and surgery, 15(2), 1371.

Pareto D, et al. (2025) Image analysis research in neuroradiology: bridging clinical and technical domains. Neuroradiology, 67(7), 1649.

Lazzarotto A, et al. (2024) Time is myelin: early cortical myelin repair prevents atrophy and clinical progression in multiple sclerosis. Brain : a journal of neurology, 147(4), 1331.

Allison EY, et al. (2024) Association of Arterial Stiffness Index and Brain Structure in the UK Biobank: A 10-Year Retrospective Analysis. Aging and disease, 15(4), 1872.

Uddin MN, et al. (2022) The comorbidity and cognition in multiple sclerosis (CCOMS) neuroimaging protocol: Study rationale, MRI acquisition, and minimal image processing pipelines. Frontiers in neuroimaging, 1, 970385.

Zhang Y, et al. (2021) The Influence of Demographics and Vascular Risk Factors on Glymphatic Function Measured by Diffusion Along Perivascular Space. Frontiers in aging neuroscience, 13, 693787.