Resource Summary Report

Generated by PRECISE-TBI on Jul 31, 2026

QuickNII

RRID:SCR_016854
Type: Tool

Proper Citation

QuickNII (RRID:SCR_016854)

Resource Information

URL: http://www.nitrc.org/projects/quicknii/

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Description: Histological brain section series aligner to volumetric atlases. Software tool for user guided affine registration (anchoring) of 2D experimental image data, typically high resolution microscopic images, to 3D atlas reference space, facilitating data integration through standardized coordinate systems. Part of the QUINT workflow.

Abbreviations: QuickNII

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

Defining Citation: PMID:31141518

Keywords: section, series, aligner, volumetric, 3D, atlas, reference, space, anchoring, data, image, microscopic, standardized, coordinate, system, bio.tools

Funding: European Union Horizon 2020 Framework Programme for Research and Innovation under the Framework Partnership Agreement

Availability: Free, Available for download, Freely available

Resource Name: QuickNII

Resource ID: SCR_016854

Alternate IDs: biotools:QuickNII

Alternate URLs: https://quicknii.readthedocs.io; https://bio.tools/QuickNII, https://github.com/Tevemadar/QuickNII

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Record Creation Time: 20220129T080332+0000

Record Last Update: 20260731T043006+0000

Ratings and Alerts

No rating or validation information has been found for QuickNII.

No alerts have been found for QuickNII.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 37 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Huang ML, et al. (2025) Misclassification in memory modification in AppNL-G-F knock-in mouse model of Alzheimer's disease. eLife, 14.

Messore F, et al. (2025) An orexin-sensitive subpopulation of layer 6 neurons regulates cortical excitability and anxiety behaviour. Translational psychiatry, 15(1), 147.

Soto-Avellaneda A, et al. (2025) Helicobacter pylori infection and ?-synuclein pathology drive parallel neurodegenerative pathways in the substantia nigra. Journal of neuroinflammation, 22(1), 293.

Carey H, et al. (2025) DeMBA: a developmental atlas for navigating the mouse brain in space and time. Nature communications, 16(1), 8108.

Moan K, et al. (2025) Differences in Cajal-Retzius Cell Density and Postnatal Persistence Across Cortical Areas Revealed by a Novel Intersectional Genetic Labeling Approach. The Journal of comparative neurology, 533(11), e70106.

Kasen A, et al. (2025) Seed structure and phosphorylation in the fuzzy coat impact tau seeding competency. Nature communications, 16(1), 9240.

Mohar B, et al. (2025) DELTA: a method for brain-wide measurement of synaptic protein turnover reveals localized plasticity during learning. Nature neuroscience, 28(5), 1089.

Manjila SB, et al. (2025) Brain-wide connectivity and novelty response of the dorsal endopiriform nucleus in mice. Cell reports, 44(7), 115827.

Puchades MA, et al. (2025) Software and pipelines for registration and analyses of rodent brain image data in reference atlas space. Frontiers in neuroinformatics, 19, 1629388.

Blixhavn CH, et al. (2024) The Locare workflow: representing neuroscience data locations as geometric objects in 3D brain atlases. Frontiers in neuroinformatics, 18, 1284107.

Goralski TM, et al. (2024) Spatial transcriptomics reveals molecular dysfunction associated with cortical Lewy pathology. Nature communications, 15(1), 2642.

Fiorilli J, et al. (2024) Neural correlates of object identity and reward outcome in the sensory cortical-hippocampal hierarchy: coding of motivational information in perirhinal cortex. Cerebral cortex (New York, N.Y. : 1991), 34(2).

Vadisiute A, et al. (2024) Glial cells undergo rapid changes following acute chemogenetic manipulation of cortical layer 5 projection neurons. Communications biology, 7(1), 1286.

Vatsa N, et al. (2024) Network analysis of ?-synuclein pathology progression reveals p21-activated kinases as regulators of vulnerability. bioRxiv : the preprint server for biology.

Gurdon B, et al. (2024) Detecting the effect of genetic diversity on brain composition in an Alzheimer's disease mouse model. Communications biology, 7(1), 605.

Kleven H, et al. (2024) Comparison of basal ganglia regions across murine brain atlases using metadata models and the Waxholm Space. Scientific data, 11(1), 1036.

Sokratian A, et al. (2024) Mouse ?-synuclein fibrils are structurally and functionally distinct from human fibrils associated with Lewy body diseases. Science advances, 10(44), eadq3539.

Øvsthus M, et al. (2024) Spatially integrated cortico-subcortical tracing data for analyses of rodent brain topographical organization. Scientific data, 11(1), 1214.

Nemeth DP, et al. (2024) Localization of brain neuronal IL-1R1 reveals specific neural circuitries responsive to immune signaling. Journal of neuroinflammation, 21(1), 303.

Geertsma HM, et al. (2024) A topographical atlas of ?-synuclein dosage and cell type-specific expression in adult mouse brain and peripheral organs. NPJ Parkinson's disease, 10(1), 65.