

Resource Summary Report

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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, image analysis software, image processing software, registration software, software application, software resource

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: 20260912T195845+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 42 mentions in open access literature.

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

Alexandersen CG, et al. (2026) Rise-and-fall dynamics reveal a molecular and cellular vulnerability axis in prion-like α -synuclein propagation. bioRxiv : the preprint server for biology.

Walker SJ, et al. (2026) A hypothalamic circuit for anticipating future changes in energy balance. Neuron.

Richards BK, et al. (2026) Efferent projections of topographically distinct relaxin family peptide receptor-3 (RXFP3) lateral hypothalamus/zona incerta cells. Brain structure & function, 231(7).

Lou M, et al. (2026) Relationships between phenotypic differences in punishment behaviour and prefrontal cortex network engagement. Neurobiology of learning and memory, 225, 108167.

Rajan R, et al. (2026) Visual experience exerts an instructive role on cortical feedback inputs to the primary visual cortex. Current biology : CB, 36(4), 1033.

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 α -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.

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

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).

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.

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.