Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 15, 2025

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: 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.

Abbreviations: QuickNII

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

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://bio.tools/QuickNII, https://github.com/Tevemadar/QuickNII

Record Creation Time: 20220129T080332+0000

Record Last Update: 20250412T060036+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 27 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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).

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

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

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.

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.

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.

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.

Dorman R, et al. (2023) Spike-based coupling between single neurons and populations across rat sensory cortices, perirhinal cortex, and hippocampus. Cerebral cortex (New York, N.Y. : 1991).

Reiten I, et al. (2023) The efferent connections of the orbitofrontal, posterior parietal, and insular cortex of the rat brain. Scientific data, 10(1), 645.

Gurdon B, et al. (2023) Detecting the effect of genetic diversity on brain composition in an Alzheimer's disease mouse model. bioRxiv : the preprint server for biology.

Blixhavn CH, et al. (2023) A Timm-Nissl multiplane microscopic atlas of rat brain zincergic terminal fields and metal-containing glia. Scientific data, 10(1), 150.

Lupori L, et al. (2023) A comprehensive atlas of perineuronal net distribution and colocalization with parvalbumin in the adult mouse brain. Cell reports, 42(7), 112788.

Carey H, et al. (2023) DeepSlice: rapid fully automatic registration of mouse brain imaging to a volumetric atlas. Nature communications, 14(1), 5884.

Tocco C, et al. (2022) The topography of corticopontine projections is controlled by postmitotic expression of the area-mapping gene Nr2f1. Development (Cambridge, England), 149(5).

Bjerke IE, et al. (2022) DOPAMAP, high-resolution images of dopamine 1 and 2 receptor expression in developing and adult mouse brains. Scientific data, 9(1), 175.

Szabo GG, et al. (2022) Ripple-selective GABAergic projection cells in the hippocampus. Neuron, 110(12), 1959.

Leergaard TB, et al. (2022) Atlas-based data integration for mapping the connections and architecture of the brain. Science (New York, N.Y.), 378(6619), 488.