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: 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 resource, data processing software, software application

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

Funding Agency: 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

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 20 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).

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 ?-synuclein dosage and cell type-specific expression in adult mouse brain and peripheral organs. NPJ Parkinson's disease, 10(1), 65.

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.

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).

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.

Yao Y, et al. (2022) Cardiovascular baroreflex circuit moonlights in sleep control. Neuron, 110(23), 3986.

Cazettes F, et al. (2021) Phasic Activation of Dorsal Raphe Serotonergic Neurons Increases Pupil Size. Current biology: CB, 31(1), 192.

Guyon N, et al. (2021) Network Asynchrony Underlying Increased Broadband Gamma Power. The Journal of neuroscience: the official journal of the Society for Neuroscience, 41(13), 2944.

Bjerke IE, et al. (2020) Database of literature derived cellular measurements from the murine basal ganglia. Scientific data, 7(1), 211.

Osen KK, et al. (2019) Waxholm Space atlas of the rat brain auditory system: Threedimensional delineations based on structural and diffusion tensor magnetic resonance imaging. NeuroImage, 199, 38.

Lillehaug S, et al. (2019) Brain-wide distribution of reporter expression in five transgenic tetracycline-transactivator mouse lines. Scientific data, 6, 190028.

Puchades MA, et al. (2019) Spatial registration of serial microscopic brain images to three-dimensional reference atlases with the QuickNII tool. PloS one, 14(5), e0216796.