

Resource Summary Report

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Nutil - Neuroimaging utilities

RRID:SCR_017183

Type: Tool

Proper Citation

Nutil - Neuroimaging utilities (RRID:SCR_017183)

Resource Information

URL: <http://www.nitrc.org/projects/nutil/>

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Description: Software toolbox to simplify and streamline mechanism of pre and post processing 2D brain image data. Neuroscience image processing and analysis utilities. Stand alone application that runs on all operating systems. Nutil is part of the QUINT workflow.

Abbreviations: Nutil

Synonyms: Neuroimaging utilities

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

Defining Citation: [PMID:32973479](#)

Keywords: neuroscience, 2D, brain, image, data, processing, analysis

Funding: European Union's Horizon 2020 Framework Programme for Research and Innovation under the Framework Partnership Agreement No. 650003 (HBP FPA) and the European Union's Horizon Europe Programme for Research Infrastructures Grant Agreement No. 101147319 (EBRAINS 2.0).

Availability: Free, Available for download, Freely available

Resource Name: Nutil - Neuroimaging utilities

Resource ID: SCR_017183

Alternate URLs: <https://nutil.readthedocs.io>; <https://github.com/Neural-Systems-at-UIO/nutil>

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Ratings and Alerts

No rating or validation information has been found for Nutil - Neuroimaging utilities.

No alerts have been found for Nutil - Neuroimaging utilities.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

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.

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

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

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.

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

Tieze SM, et al. (2025) Molecular elucidation of brain lipofuscin in aging and Neuronal Ceroid Lipofuscinosis. Research square.

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.

Lubben N, et al. (2024) LRRK2 kinase inhibition reverses G2019S mutation-dependent effects on tau pathology progression. *Translational neurodegeneration*, 13(1), 13.

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

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.

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.

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

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.

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.