

Resource Summary Report

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QCAAlign

RRID:SCR_023088

Type: Tool

Proper Citation

QCAAlign (RRID:SCR_023088)

Resource Information

URL: <https://www.nitrc.org/projects/qcalign>

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Description: Software tool to detect regions that are affected by tissue damage, labelling defects, artifacts or errors in image acquisition, regions that are poorly registered, or where registration cannot be verified. Makes it easier for the user to explore the atlas hierarchy and decide on customized hierarchy level for investigation. QCAAlign was developed to support QUINT workflow which supports spatial analysis of labelling in series of brain sections from mouse and rat based on registration to reference atlas.

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

Keywords: QUINT, supports spatial analysis, labelling in series, detect tissue damage regions, detect errors in image acquisition brain sections, mouse, rat, reference atlas,

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

Availability: Free, Available for download, Freely available

Resource Name: QCAAlign

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

License: GNU GPL v3

Record Creation Time: 20221230T050203+0000

Record Last Update: 20260811T043716+0000

Ratings and Alerts

No rating or validation information has been found for QCAlign.

No alerts have been found for QCAlign.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

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.

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. (2023) A neuroscientist's guide to using murine brain atlases for efficient analysis and transparent reporting. *Frontiers in neuroinformatics*, 17, 1154080.

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.