

Resource Summary Report

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TurboReg

RRID:SCR_014308

Type: Tool

Proper Citation

TurboReg (RRID:SCR_014308)

Resource Information

URL: <http://bigwww.epfl.ch/thevenaz/turboreg/>

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Description: An ImageJ plugin for the automatic alignment of a source image (or a stack) to a target image. Manual, automatic, and batch alignment modes are available. Users may specify some landmarks to establish the initial correspondence between images. In automatic and batch modes, the landmarks are automatically refined to match the landmarks of the target image. After registration, the plugin creates a warped image using the final position of the source image and the target landmarks. The plugin can be called by a macro or by another plugin. Technical guidance is available on the website.

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

Defining Citation: [PMID:18267377](#)

Keywords: image processing software, imagej, plugin, image alignment, automatic alignment, landmark

Availability: Available for download, Freely available for research purposes, Acknowledgement requested

Resource Name: TurboReg

Resource ID: SCR_014308

Record Creation Time: 20220129T080320+0000

Record Last Update: 20260804T043535+0000

Ratings and Alerts

No rating or validation information has been found for TurboReg.

No alerts have been found for TurboReg.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 80 mentions in open access literature.

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

Xu Q, et al. (2025) Visualizing the modulation of neurokinin 1 receptor-positive neurons in the superficial dorsal horn by spinal cord stimulation in vivo. *Pain*, 166(2), 428.

Ott DP, et al. (2025) Coordination between ESCRT function and Rab conversion during endosome maturation. *The EMBO journal*, 44(6), 1574.

Zhu MY, et al. (2025) A Neural Circuit For Bergamot Essential Oil-Induced Anxiolytic Effects. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(1), e2406766.

Khan MM, et al. (2025) Interaction of yeast V-ATPase with TLDc protein Rtc5p. *bioRxiv : the preprint server for biology*.

Randriamanantsoa SJ, et al. (2024) Coexisting mechanisms of luminogenesis in pancreatic cancer-derived organoids. *iScience*, 27(7), 110299.

Zhao R, et al. (2024) Identification and characterization of intermediate states in mammalian neural crest cell epithelial to mesenchymal transition and delamination. *eLife*, 13.

Chen C, et al. (2024) Neural circuit basis of placebo pain relief. *Nature*, 632(8027), 1092.

Hruska-Plochan M, et al. (2024) A model of human neural networks reveals NPTX2 pathology in ALS and FTLD. *Nature*, 626(8001), 1073.

Wang Z, et al. (2023) Exercise alters cortico-basal ganglia network metabolic connectivity: a mesoscopic level analysis informed by anatomic parcellation defined in the mouse brain connectome. *Brain structure & function*, 228(8), 1865.

Narita H, et al. (2023) N-terminal region of *Drosophila melanogaster* Argonaute2 forms amyloid-like aggregates. *BMC biology*, 21(1), 78.

Zhao R, et al. (2023) Identification and characterization of intermediate states in mammalian neural crest cell epithelial to mesenchymal transition and delamination. *bioRxiv : the preprint server for biology*.

Chang XY, et al. (2022) In vivo neuronal and astrocytic activation in somatosensory cortex by acupuncture stimuli. *Neural regeneration research*, 17(11), 2526.

Jeong I, et al. (2022) Measurement of ciliary beating and fluid flow in the zebrafish adult telencephalon. *STAR protocols*, 3(3), 101542.

Blaeser AS, et al. (2022) Trigeminal afferents sense locomotion-related meningeal deformations. *Cell reports*, 41(7), 111648.

Long Q, et al. (2021) Protocol for detecting chromatin dynamics and screening chromatin relaxer by FRAP assay. *STAR protocols*, 2(3), 100706.

Wagner MJ, et al. (2021) A neural circuit state change underlying skilled movements. *Cell*, 184(14), 3731.

Cao P, et al. (2021) Early-life inflammation promotes depressive symptoms in adolescence via microglial engulfment of dendritic spines. *Neuron*, 109(16), 2573.

Fiederling F, et al. (2021) SpineRacks and SpinalJ for efficient analysis of neurons in a 3D reference atlas of the mouse spinal cord. *STAR protocols*, 2(4), 100897.

Adam I, et al. (2021) One-to-one innervation of vocal muscles allows precise control of birdsong. *Current biology : CB*, 31(14), 3115.

Li Y, et al. (2021) Neural mechanism of spatio-chromatic opponency in the *Drosophila* amacrine neurons. *Current biology : CB*, 31(14), 3040.