

Resource Summary Report

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Semi-Manual Alignment to Reference Templates

RRID:SCR_019265

Type: Tool

Proper Citation

Semi-Manual Alignment to Reference Templates (RRID:SCR_019265)

Resource Information

URL: <https://github.com/mjin1812/SMART>

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Description: Software tool that extends WholeBrain framework in R for segmenting and registering experimental images to Allen Mouse Common Coordinate Framework (CCF). Streamlines processing of large volumetric LSFM datasets and solves issues with non-uniform morphing across anterior-posterior axis with interactive “choice game.” Accounts for duplicate cell counts in adjacent z images and presents new ways to easily parse apart and interactively visualize final mapped datasets.

Abbreviations: SMART

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

Defining Citation: [DOI:10.1101/727529](https://doi.org/10.1101/727529)

Keywords: Segmenting experimental images, registering experimental images, Allen Mouse Common Coordinate Framework, data processing, experimental images

Availability: Free, Available for download, Freely available

Resource Name: Semi-Manual Alignment to Reference Templates

Resource ID: SCR_019265

Alternate URLs: <https://mjin1812.github.io/SMART/installation.html>

Record Creation Time: 20220129T080344+0000

Record Last Update: 20240710T054231+0000

Ratings and Alerts

No rating or validation information has been found for Semi-Manual Alignment to Reference Templates.

No alerts have been found for Semi-Manual Alignment to Reference Templates.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2818 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Park SH, et al. (2023) Glycogen Synthase Kinase-3 Isoform Variants and Their Inhibitory Phosphorylation in Human Testes and Spermatozoa. *The world journal of men's health*, 41(1), 215.

Zou H, et al. (2023) Transcriptome profiling reveals the roles of pigment formation mechanisms in yellow *Paeonia delavayi* flowers. *Molecular genetics and genomics : MGG*, 298(2), 375.

Dundee JM, et al. (2023) P2Y6 receptor-dependent microglial phagocytosis of synapses mediates synaptic and memory loss in aging. *Aging cell*, 22(2), e13761.

Zhang Q, et al. (2023) TGF- β 1 suppresses the T-cell response in teleost fish by initiating Smad3- and Foxp3-mediated transcriptional networks. *The Journal of biological chemistry*, 299(2), 102843.

Wang S, et al. (2023) Host- and virus-induced gene silencing of HOG1-MAPK cascade genes in *Rhizophagus irregularis* inhibit arbuscule development and reduce resistance of plants to drought stress. *Plant biotechnology journal*, 21(4), 866.

Wang Y, et al. (2023) Identification of Alfalfa SPL gene family and expression analysis under biotic and abiotic stresses. *Scientific reports*, 13(1), 84.

Ma R, et al. (2023) KinasePhos 3.0: Redesign and Expansion of the Prediction on Kinase-specific Phosphorylation Sites. *Genomics, proteomics & bioinformatics*, 21(1), 228.

Sun X, et al. (2023) Glucose transporter GLUT1 expression is important for oriental river prawn (*Macrobrachium nipponense*) hemocyte adaptation to hypoxic conditions. *The Journal of biological chemistry*, 299(1), 102748.

Kusakabe M, et al. (2023) Cells with stem-like properties are associated with the development of HPV18-positive cervical cancer. *Cancer science*, 114(3), 885.

Wolf C, et al. (2023) Motivation by reward jointly improves speed and accuracy, whereas task-relevance and meaningful images do not. *Attention, perception & psychophysics*, 85(3), 930.

Mirhadi S, et al. (2023) Mitochondrial Aconitase ACO2 Links Iron Homeostasis with Tumorigenicity in Non-Small Cell Lung Cancer. *Molecular cancer research : MCR*, 21(1), 36.

Qiu CW, et al. (2023) Genome resequencing and transcriptome profiling reveal molecular evidence of tolerance to water deficit in barley. *Journal of advanced research*, 49, 31.

Tang Z, et al. (2023) Combined inhibition of histone deacetylase and cytidine deaminase improves epigenetic potency of decitabine in colorectal adenocarcinomas. *Clinical epigenetics*, 15(1), 89.

Fu W, et al. (2023) The Inactivated ISKNV-I Vaccine Confers Highly Effective Cross-Protection against Epidemic RSIV-I and RSIV-II from Cultured Spotted Sea Bass *Lateolabrax maculatus*. *Microbiology spectrum*, 11(3), e0449522.

Kampmeyer C, et al. (2023) Lysine deserts prevent adventitious ubiquitylation of ubiquitin-proteasome components. *Cellular and molecular life sciences : CMLS*, 80(6), 143.

Zhao SW, et al. (2023) Haplotype-resolved genome assembly of *Coriaria nepalensis* a non-legume nitrogen-fixing shrub. *Scientific data*, 10(1), 259.

Ribeiro JM, et al. (2023) Blood-feeding adaptations and virome assessment of the poultry red mite *Dermanyssus gallinae* guided by RNA-seq. *Communications biology*, 6(1), 517.

Shi R, et al. (2023) Histone Acetyltransferase Rtt109 Regulates Development, Morphogenesis, and Citrinin Biosynthesis in *Monascus purpureus*. *Journal of fungi (Basel, Switzerland)*, 9(5).

Li K, et al. (2023) Glutamine Metabolism Underlies the Functional Similarity of T Cells between Nile Tilapia and Tetrapod. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 10(12), e2201164.

Espinosa-Jiménez T, et al. (2023) A novel rhein-huprine hybrid ameliorates disease-modifying properties in preclinical mice model of Alzheimer's disease exacerbated with high fat diet. *Cell & bioscience*, 13(1), 52.