

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, image analysis software, segmentation 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: 20260905T132848+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 [PRECISE-TBI](#) .

Huang X, et al. (2023) Genome-wide identification and expression analyses of the pectate lyase (PL) gene family in *Fragaria vesca*. BMC genomics, 24(1), 435.

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.

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.

Jafer M, et al. (2023) Using Intervention Mapping to Develop ISAC, a Comprehensive Intervention for Early Detection and Prevention of Oral Cancer in Saudi Arabia. Journal of cancer education : the official journal of the American Association for Cancer Education, 38(2), 505.

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

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.

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 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.

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.

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.

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.

Miller-Rosales C, et al. (2023) Provision of Digital Health Technologies for Opioid Use Disorder Treatment by US Health Care Organizations. *JAMA network open*, 6(7), e2323741.

Xiang C, et al. (2023) Genome-wide identification and characterization of SRLK gene family reveal their roles in self-incompatibility of *Erigeron breviscapus*. *BMC genomics*, 24(1), 402.

Georgiades M, et al. (2023) Hearing of malaria mosquitoes is modulated by a beta-adrenergic-like octopamine receptor which serves as insecticide target. *Nature communications*, 14(1), 4338.

Wan Y, et al. (2023) Smartphone-based versus traditional face-to-face collaborative care for community-dwelling older adults living with dementia in China: protocol for an implementation science-based sequential multiple assignment randomised trial. *BMJ open*, 13(7), e067406.

Zhao Y, et al. (2023) Overexpression of chitinase PbChia1 from *Plasmodiophora brassicae* improves broad-spectrum disease resistance of *Arabidopsis*. *Virulence*, 14(1), 2233147.

Hu J, et al. (2023) Genome-wide characterization, evolutionary analysis, and expression pattern analysis of the trihelix transcription factor family and gene expression analysis under MeJA treatment in *Panax ginseng*. *BMC plant biology*, 23(1), 376.

Ru B, et al. (2023) A Novel FYVE Domain-Containing Protein Kinase, PsZFPK1, Plays a Critical Role in Vegetative Growth, Sporangium Formation, Oospore Production, and Virulence in *Phytophthora sojae*. *Journal of fungi (Basel, Switzerland)*, 9(7).