

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

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: 20260803T040807+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 [T1D](#) .

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.

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

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.

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.

Poole HM, et al. (2023) Feasibility study of a Behavioural Intervention for Opioid Reduction (BIOR) for patients with chronic non-cancer pain in primary care: a protocol. *BMJ open*, 13(1), e065646.

Goldstein A, et al. (2023) Efficacy of self-management program associated with a spa therapy for knee osteoarthritis patients (GETT 2): a research protocol for a randomized trial. *Trials*, 24(1), 45.

Wang C, et al. (2023) Cis- and Trans-variations of Stearoyl-CoA Desaturase Provide New Insights into the Mechanisms of Diverged Pattern of Phenotypic Plasticity for Temperature Adaptation in Two Congeneric Oyster Species. *Molecular biology and evolution*, 40(2).

Stolze FHG, et al. (2023) Fatigue-Crack Detection in a Multi-Riveted Strap-Joint Aluminium Aircraft Panel Using Amplitude Characteristics of Diffuse Lamb Wave Field. *Materials* (Basel, Switzerland), 16(4).

Anwar A, et al. (2023) Anxiety and Stress Related to COVID-19 Among the Community Dwelling Older Adults Residing in the Largest Refugee Camp of the World. *Community mental health journal*, 1.

Pei H, et al. (2023) The Tumorigenic Effect of lncRNA AFAP1-AS1 is Mediated by Translated Peptide ATMLP Under the Control of m6 A Methylation. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 10(13), e2300314.

Cheng K, et al. (2023) Genome-wide identification and characterization of polycomb repressive complex 2 core components in upland cotton (*Gossypium hirsutum* L.). *BMC plant biology*, 23(1), 66.

Cui H, et al. (2023) Genome-Wide Identification and Analysis of the Maize Serine Peptidase S8 Family Genes in Response to Drought at Seedling Stage. *Plants* (Basel, Switzerland), 12(2).

Fu X, et al. (2023) circRNA432 enhances the coelomocyte phagocytosis via regulating the miR-2008-ELMO1 axis in *Vibrio splendidus*-challenged *Apostichopus japonicus*. *Communications biology*, 6(1), 115.

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.

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.

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.

Sadaqat M, et al. (2023) Genome-wide identification and expression profiling of two-component system (TCS) genes in *Brassica oleracea* in response to shade stress. *Frontiers in genetics*, 14, 1142544.

Tang J, et al. (2023) Identification and characterization of gonadotropin-releasing hormone (GnRH) in Zhikong scallop *Chlamys farreri* during gonadal development. *Frontiers in physiology*, 14, 1180725.