

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 [Kravitz](#) .

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.

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

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.

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).

Saito-Takatsuji H, et al. (2023) Transthyretin Is Commonly Upregulated in the Hippocampus of Two Stress-Induced Depression Mouse Models. International journal of molecular sciences, 24(4).

Wang MJ, et al. (2023) Genome-Wide Identification and Analysis of bHLH Transcription Factors Related to Anthocyanin Biosynthesis in Cymbidium ensifolium. International journal of molecular sciences, 24(4).

Mizgina TO, et al. (2023) Molecular Cloning and Characteristics of a Lectin from the Bivalve Glycymeris yessoensis. Marine drugs, 21(2).

Smith IP, et al. (2023) Characterization of the Biophysical Properties and Cell Adhesion Interactions of Marine Invertebrate Collagen from Rhizostoma pulmo. Marine drugs, 21(2).

Stürzebecher PE, et al. (2023) [Treatment and LDL cholesterol adjustment in patients with high and very high cardiovascular risk in Germany compared with Europe - data from the SANTORINI registry]. Deutsche medizinische Wochenschrift (1946), 148(9), 55.

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.

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).

Pole JD, et al. (2023) Measuring what gets done: Using goal attainment scaling in a vocational counseling program for survivors of childhood cancer. *Cancer medicine*, 12(7), 8676.

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.

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.

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.

Liu P, et al. (2023) Association of metformin exposure with low risks of frailty and adverse outcomes in patients with diabetes. *European journal of medical research*, 28(1), 65.