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

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

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

Defining Citation: DOI:10.1101/727529

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

Funding:

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: 20250420T014929+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 NIF.

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.

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.

Nabeel-Shah S, et al. (2023) Multilevel interrogation of H3.3 reveals a primordial role in transcription regulation. Epigenetics & chromatin, 16(1), 10.

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.

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.

Sohl SJ, et al. (2023) Pilot study of implementing the Shared Healthcare Actions & Reflections Electronic systems in Survivorship (SHARE-S) program in coordination with clinical care. Cancer medicine, 12(11), 12847.

Chaudhry MG, et al. (2023) Effect of abusive supervision on organizational cynicism

(Cognitive, affective, behavioral) mediating effect of playing dumb. PloS one, 18(4), e0284884.

Gupta K, et al. (2023) Functional characterization of hypothetical proteins from Monkeypox virus. Journal, genetic engineering & biotechnology, 21(1), 46.

Crosky S, et al. (2023) Randomized controlled trial protocol of health coaching for veterans with complex chronic pain. Trials, 24(1), 239.

Conde-Berriozabal S, et al. (2023) M2 Cortex Circuitry and Sensory-Induced Behavioral Alterations in Huntington's Disease: Role of Superior Colliculus. The Journal of neuroscience: the official journal of the Society for Neuroscience, 43(18), 3379.

Li M, et al. (2023) Genome-Wide Comparative Analysis of the R2R3-MYB Gene Family in Six Ipomoea Species and the Identification of Anthocyanin-Related Members in Sweet Potatoes. Plants (Basel, Switzerland), 12(8).

Lim AR, et al. (2023) Investigating the physicochemical properties, structural attributes, and molecular dynamics of organic-inorganic hybrid [NH3(CH2)2NH3]2CdBr4·2Br crystals. Scientific reports, 13(1), 6133.

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.

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.

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

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.

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

Huang X, et al. (2023) Genome-Wide Identification of the PP2C Gene Family and Analyses with Their Expression Profiling in Response to Cold Stress in Wild Sugarcane. Plants (Basel, Switzerland), 12(13).

Chen Q, et al. (2023) Genome-Wide Identification and Functional Characterization of FAR1-RELATED SEQUENCE (FRS) Family Members in Potato (Solanum tuberosum). Plants (Basel, Switzerland), 12(13).

Wi?niowska-Szurlej A, et al. (2023) Enhanced Rehabilitation Outcomes of Robotic-Assisted Gait Training with EksoNR Lower Extremity Exoskeleton in 19 Stroke Patients. Medical

science monitor : international medical journal of experimental and clinical research, 29, e940511.