Resource Summary Report

Generated by RRID on Apr 16, 2025

Volume image object AnNOtation System

RRID:SCR_003393
Type: Tool

Proper Citation

Volume image object AnNOtation System (RRID:SCR_003393)

Resource Information

URL: http://vano.cellexplorer.org/

Proper Citation: Volume image object AnNOtation System (RRID:SCR_003393)

Description: VANO is a Volume image object AnNOtation System for 3D multicolor image stacks, developed by Hanchuan Peng, Fuhui Long, and Gene Myers. VANO provides a well-coordinated way to annotate hundreds or thousands of 3D image objects. It combines 3D views of images and spread sheet neatly, and is just easy to manage 3D segmented image objects. It also lets you incorporate your segmentation priors, and lets you edit your segmentation results! This system has been used in building the first digital nuclei atlases of C. elegans at the post-embryonic stage (joint work with Stuart Kim lab, Stanford Univ), the single-neuron level fruit fly neuronal atlas of late embryos (with Chris Doe lab, Univ of Oregon, HHMI), and the compartment-level of digital map(s) of adult fruit fly brains (several labs at Janelia Farm, HHMI). VANO is cross-platform software. Currently the downloadable versions are for Windows (XP and Vista) and Mac (Intel-chip based, Leopard or Tiger OS). If you need VANO for different systems (such as 64bit or 32bit, Redhat Linux, Ubuntu, etc), you can either compile the software, or send an email to pengh (at) janelia.hhmi.org. VANO is Open-Source. You can download both the source code files and pre-complied versions at the Software Downloads page.

Abbreviations: VANO

Synonyms: Volume-object annotation system (VANO), VANO - Volume image object AnNOtation System

Resource Type: software resource, d visualization software, source code, software application, image processing software, data processing software

Defining Citation: PMID:19189978

Keywords: embryo, fruit fly, 3d, annotation, atlas, brain, neuron, neuronal, object, segmentation, software, image, nucleus, cell

Funding:

Availability: Open unspecified license - please cite; needs a special license for any commercial purpose.

Resource Name: Volume image object AnNOtation System

Resource ID: SCR_003393

Alternate IDs: nif-0000-32984

Record Creation Time: 20220129T080218+0000

Record Last Update: 20250416T063328+0000

Ratings and Alerts

No rating or validation information has been found for Volume image object AnNOtation System.

No alerts have been found for Volume image object AnNOtation System.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID.

Naldi A, et al. (2018) The CoLoMoTo Interactive Notebook: Accessible and Reproducible Computational Analyses for Qualitative Biological Networks. Frontiers in physiology, 9, 680.

Levy N, et al. (2018) Prediction of Mutations to Control Pathways Enabling Tumor Cell Invasion with the CoLoMoTo Interactive Notebook (Tutorial). Frontiers in physiology, 9, 787.

Norris M, et al. (2016) NMRFx Processor: a cross-platform NMR data processing program. Journal of biomolecular NMR, 65(3-4), 205.

Zaytsev YV, et al. (2014) CyNEST: a maintainable Cython-based interface for the NEST simulator. Frontiers in neuroinformatics, 8, 23.

Antony PM, et al. (2013) Light microscopy applications in systems biology: opportunities and challenges. Cell communication and signaling : CCS, 11(1), 24.

Sousa da Silva AW, et al. (2012) ACPYPE - AnteChamber PYthon Parser interfacE. BMC research notes, 5, 367.

Herzog R, et al. (2011) A novel informatics concept for high-throughput shotgun lipidomics based on the molecular fragmentation query language. Genome biology, 12(1), R8.

Ho BK, et al. (2009) Probing the flexibility of large conformational changes in protein structures through local perturbations. PLoS computational biology, 5(4), e1000343.