

Resource Summary Report

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Advanced 3D Visualization and Volume Modeling

RRID:SCR_007353

Type: Tool

Proper Citation

Advanced 3D Visualization and Volume Modeling (RRID:SCR_007353)

Resource Information

URL: <http://www.fei.com/software/amira-3d-for-life-sciences/>

Proper Citation: Advanced 3D Visualization and Volume Modeling (RRID:SCR_007353)

Description: Software tool for visualizing, manipulating, and understanding data from tomography, microscopy, MRI and other imaging processes. Used to import and export options, to processes 3D image filtering and DTI based fiber tracking to visualization, volume and surface rendering, author tools for virtual reality navigation, video generation, and more.

Synonyms: Amira, Amira 3D Software for Life Sciences, Amira 3D analysis

Resource Type: software resource, 3d visualization software, data analysis software, data processing software, data visualization software, software application

Keywords: 3d, data, visualization, tomography, imaging, process, MRI, microscopy, video

Availability: Commercially available

Resource Name: Advanced 3D Visualization and Volume Modeling

Resource ID: SCR_007353

Alternate IDs: nif-0000-00262, SCR_014305

Old URLs: <http://www.amiravis.com>

Ratings and Alerts

No rating or validation information has been found for Advanced 3D Visualization and

Volume Modeling.

No alerts have been found for Advanced 3D Visualization and Volume Modeling.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1601 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Diep DTV, et al. (2024) A metabolically controlled contact site between vacuoles and lipid droplets in yeast. *Developmental cell*, 59(6), 740.

Hall ET, et al. (2024) Cytoneme signaling provides essential contributions to mammalian tissue patterning. *Cell*, 187(2), 276.

Saha I, et al. (2023) The AAA+ chaperone VCP disaggregates Tau fibrils and generates aggregate seeds in a cellular system. *Nature communications*, 14(1), 560.

Roudot P, et al. (2023) u-track3D: Measuring, navigating, and validating dense particle trajectories in three dimensions. *Cell reports methods*, 3(12), 100655.

Albargothy MJ, et al. (2023) Investigation of heterocellular features of the mouse retinal neurovascular unit by 3D electron microscopy. *Journal of anatomy*, 243(2), 245.

Chaudagar K, et al. (2023) Suppression of tumor cell lactate-generating signaling pathways eradicates murine PTEN/p53-deficient aggressive-variant prostate cancer via macrophage phagocytosis. *bioRxiv : the preprint server for biology*.

Mehta K, et al. (2023) Online conversion of reconstructed neural morphologies into standardized SWC format. *Nature communications*, 14(1), 7429.

Brenneis G, et al. (2023) The sea spider *Pycnogonum litorale* overturns the paradigm of the absence of axial regeneration in molting animals. *Proceedings of the National Academy of Sciences of the United States of America*, 120(5), e2217272120.

Karreman MA, et al. (2023) Active Remodeling of Capillary Endothelium via Cancer Cell-Derived MMP9 Promotes Metastatic Brain Colonization. *Cancer research*, 83(8), 1299.

Homberg U, et al. (2023) Comparative morphology of serotonin-immunoreactive neurons innervating the central complex in the brain of dicondylarian insects. *The Journal of comparative neurology*, 531(14), 1482.

Herget U, et al. (2023) Altered glucocorticoid reactivity and behavioral phenotype in *rx3^{-/-}*

larval zebrafish. *Frontiers in endocrinology*, 14, 1187327.

Saha A, et al. (2023) Regional variation in the organization and connectivity of the first synapse in the primate night vision pathway. *iScience*, 26(11), 108113.

Harris SC, et al. (2023) Asymmetric retinal direction tuning predicts optokinetic eye movements across stimulus conditions. *eLife*, 12.

Yu WQ, et al. (2023) Distinctive synaptic structural motifs link excitatory retinal interneurons to diverse postsynaptic partner types. *Cell reports*, 42(1), 112006.

Eggs B, et al. (2023) Terebra steering in chalcidoid wasps. *Frontiers in zoology*, 20(1), 26.

Keine C, et al. (2023) Confocal Imaging and 3D Reconstruction to Determine How Genetic Perturbations Impact Presynaptic Morphology at the Mouse Calyx of Held. *Bio-protocol*, 13(17), e4799.

Chaudagar K, et al. (2023) Reversal of Lactate and PD-1-mediated Macrophage Immunosuppression Controls Growth of PTEN/p53-deficient Prostate Cancer. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 29(10), 1952.

Mikhlina A, et al. (2023) Morphology of the buccal apparatus of *Dendronotus frondosus* (Gastropoda: Nudibranchia). *Journal of morphology*, 284(6), e21593.

Riley KC, et al. (2023) Three-Dimensional Structure of Inner Ear Hair Cell Ribbon Synapses in a Zebrafish Model of Usher Syndrome Type 1B. *Zebrafish*, 20(2), 47.

Longren LL, et al. (2023) Dense reconstruction of elephant trunk musculature. *Current biology : CB*, 33(21), 4713.