

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/>

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

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>

Record Creation Time: 20220129T080241+0000

Record Last Update: 20260905T132610+0000

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 1649 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Furukawa S, et al. (2026) Posterior shift of Shh-Fgf signaling in axolotl limb regeneration drives sequential digit formation. *iScience*, 29(6), 116256.

Bozon K, et al. (2026) Timing of NAD Deficiency During Organogenesis Dictates Defect Type and Penetrance. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(3), e71504.

Homberg U, et al. (2026) Unexpected Evolutionary Divergence of Tachykinin-Positive Neurons Innervating the Central Complex in Hexapods. *The Journal of comparative neurology*, 534(3), e70142.

Gash EN, et al. (2026) Imaging vascular characteristics and glycolytic metabolism of glioblastoma in a chick embryo model using 1H MRI and [18F]FDG-PET. *Molecular imaging and biology*, 28(2), 347.

Farnworth MS, et al. (2026) Distinct evolutionary trajectories of two integration centres, the central complex and mushroom bodies, across Heliconiini butterflies. *eLife*, 14.

Nicolaidou AR, et al. (2026) Analysis of Dendritic Specializations in Two Classes of Kenyon Cells in the Mushroom Body of the Adult Honeybee, *Apis mellifera*. *The Journal of comparative neurology*, 534(5), e70169.

Müller TG, et al. (2026) Lenacapavir-induced capsid damage uncovers HIV-1 genomes emanating from nuclear speckles. *The EMBO journal*, 45(2), 449.

Harris DM, et al. (2026) Fiber Track Length Gradients in the Avian Sound Localization Circuit Require Conduction Velocity Gradients to Maintain Isochronicity. *The Journal of comparative neurology*, 534(4), e70162.

Gong Y, et al. (2026) Human retinal organoids functionally bridge a transected optic nerve in a rat model. *Cell stem cell*, 33(7), 1161.

Donzé G, et al. (2026) Comparative endocranial anatomy in the crocodylians *Leidyosuchus canadensis* and *Stangerochampsia mccabei* from the upper Cretaceous of Alberta, Canada. *Journal of anatomy*, 249(2), 264.

Herget U, et al. (2026) Pth4 neurons define a novel hypothalamic circuit that promotes sleep via brainstem monoaminergic neurons. *Current biology : CB*, 36(1), 161.

da Silva IB, et al. (2026) Sex-specific division of labor in termites is linked to differential brain architecture and foraging gene expression. *iScience*, 29(4), 115278.

Dawson EH, et al. (2026) Molecular Tuning and Morphology of the Olfactory System Underlie Nestmate Recognition in a Polymorphic Ant. *Molecular ecology*, 35(12), e70445.

Do TT, et al. (2026) A correlative workflow for synaptic imaging by cryo-electron tomography. *Structure (London, England : 1993)*, 34(5), 839.

Guillermin C, et al. (2026) Spatiotemporal control of myoblast identity drives muscle diversity in the *Drosophila* leg. *Science advances*, 12(27), eaed0910.

Inagaki S, et al. (2026) Endoplasmic reticulum patterns insect cuticle nanostructure. *The Journal of cell biology*, 225(2).

Takahashi N, et al. (2026) Parallel Pathways for Visual and Olfactory Information in the Mushroom Bodies of the Swallowtail Butterfly Brain. *The Journal of comparative neurology*, 534(1), e70128.

Valadares L, et al. (2026) Neural investment patterns reflect task specialization in the leaf-cutting ant *Acromyrmex subterraneus*. *iScience*, 29(2), 114820.

Lee JH, et al. (2026) Oxidative stress-induced astrocytic collagen biosynthesis drives glial barrier formation and neuronal death in ischemic stroke. *Cell metabolism*, 38(7), 1404.

Kehribar M, et al. (2026) Selective adhesion preserves eye patterning as axonal retinotopy in the *Drosophila* brain. *Current biology : CB*, 36(5), 1097.