

Resource Summary Report

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3D Slicer

RRID:SCR_005619

Type: Tool

Proper Citation

3D Slicer (RRID:SCR_005619)

Resource Information

URL: <http://slicer.org/>

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Description: A free, open source software package for visualization and image analysis including registration, segmentation, and quantification of medical image data. Slicer provides a graphical user interface to a powerful set of tools so they can be used by end-user clinicians and researchers alike. 3D Slicer is natively designed to be available on multiple platforms, including Windows, Linux and Mac Os X. Slicer is based on VTK (<http://public.kitware.com/vtk>) and has a modular architecture for easy addition of new functionality. It uses an XML-based file format called MRML - Medical Reality Markup Language which can be used as an interchange format among medical imaging applications. Slicer is primarily written in C++ and Tcl.

Abbreviations: Slicer

Synonyms: Slicer, 3D Slicer: A multi-platform free and open source software package for visualization and medical image computing, 3D Slicer, 3DSlicer

Resource Type: software resource, data visualization software, data processing software, software application, image analysis software

Keywords: birn, diffusion, functional, na-mic (ncbc), nifti-1 support, registration, segmentation, visualization, volume, warping

Funding: NIH ;
NCRR ;
NIBIB ;
NCI ;
US Army ;
Telemedicine and Advanced Technology Research Center

Availability: 3D Slicer License

Resource Name: 3D Slicer

Resource ID: SCR_005619

Alternate IDs: nif-0000-00256

Alternate URLs: <http://www.nitrc.org/projects/slicer>

Record Creation Time: 20220129T080231+0000

Record Last Update: 20260803T040417+0000

Ratings and Alerts

No rating or validation information has been found for 3D Slicer.

No alerts have been found for 3D Slicer.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2238 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#) .

Huang X, et al. (2026) Integrin/CD44-targeted liposomes remodel the pulmonary microenvironment to alleviate acute exacerbation of pulmonary fibrosis. Journal of controlled release : official journal of the Controlled Release Society, 389, 114427.

Nazmuddin M, et al. (2026) Stereotactic lesioning of cholinergic cells by injection of ME20.4 Saporin in the nucleus basalis of Meynert in a rhesus monkey (Macaca mulatta). Journal of neuropathology and experimental neurology, 85(1), 58.

Xu J, et al. (2026) Prediction of local recurrence in cohorts of head and neck cancer patients after intensity-modulated radiation therapy based on CT radiomics: A double-center observation study. Translational oncology, 63, 102622.

Gao B, et al. (2026) Sox2-overexpressing neural stem cells alleviate ventricular enlargement and neurological dysfunction in posthemorrhagic hydrocephalus. Neural regeneration research, 21(2), 769.

Cairo F, et al. (2026) Cross-Linked Volume-Stable Collagen Matrix Versus Connective Tissue Graft for Soft Tissue Augmentation at Implant Site. A Non-Inferiority, Multicenter Randomized Clinical Trial. Clinical oral implants research, 37(1), 45.

Rothe M, et al. (2026) Fast 3D UTE in vivo T1 and T 2 * $\{\mathrm{T}\}_2^{\mathrm{last}}$ mapping of fast relaxing knee tissues at 3 T. Magnetic resonance in medicine, 95(2), 693.

Duclos KK, et al. (2026) Topological and variational modularity: A case study using the pectoral girdle across the *Chrosomus eos-neogaeus* hybridization complex. *Anatomical record* (Hoboken, N.J. : 2007), 309(1), 130.

Shi W, et al. (2025) Characteristics and prognostic values of abdominal aortic branches calcification in hemodialysis patients. *Renal failure*, 47(1), 2432538.

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Liang L, et al. (2025) SpIC3D imaging for spinal in situ contrast 3D visualization. *Cell reports methods*, 5(10), 101202.

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Liendro-Bataglia NA, et al. (2025) Feeding Ecology, Evolutionary Allometry, and Convergence in the Lower Jaw of New World Blackbirds and Allied Passerine Birds (Emberizoidea). *Journal of morphology*, 286(10), e70092.

Wang K, et al. (2025) Tobacco Smoking Rewires Cell Metabolism by Inducing GAPDH Succinylation to Promote Lung Cancer Progression. *Cancer research*, 85(15), 2838.

Lappanakokiat N, et al. (2025) Dimensional analysis of condylar head using 3D scanned models of human dry skulls: A comparative study of measurement methods. *Cranio : the journal of craniomandibular practice*, 1.

Choi J, et al. (2025) Aseptic, semi-sealed cranial chamber implants for chronic multi-channel neurochemical and electrophysiological neural recording in nonhuman primates. *bioRxiv : the preprint server for biology*.

Tian Y, et al. (2025) Internal hydrodynamics within the skeleton of *Acropora pulchra* coral. *iScience*, 28(2), 111742.

Troyer EM, et al. (2025) Macroevoolutionary role reversals in the earliest radiation of bony fishes. *Current biology : CB*.

Rominger MC, et al. (2025) Mutant RIT1 cooperates with YAP to drive an EMT-like lung cancer state. *Cell reports*, 44(10), 116185.

Mo H, et al. (2025) PSA proportion of index lesion: a novel index for predicting prostate pathology outcomes in biopsy-naïve patients with PSA 10 ng/ml and PI-RADS 3 lesions. *World journal of urology*, 43(1), 444.

Savolainen A, et al. (2025) Uterine collagen deposition fluctuates throughout the estrous cycle and provides a scaffold for gland visualization via the SHG-casting method. *iScience*, 28(12), 113989.