

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

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: 20260905T132538+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 3187 mentions in open access literature.

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

David MA, et al. (2026) Demystifying machine learning approaches in digital bone imaging using microCT and HRpQCT. Bone reports, 29, 101911.

Stoiber S, et al. (2026) [18F]FDG PET/CT multiomics identifies Hedgehog-driven HPV-negative head and neck squamous cell carcinoma. Molecular cancer, 25(1).

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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.

Kwon Y, et al. (2026) Enhancing cancer prognostics with group penalty models: a comparative study on radiomics feature selection in lung adenocarcinomas and meningiomas. Quantitative imaging in medicine and surgery, 16(2), 118.

Yoshida SY, et al. (2026) Whole-organ and whole-body 3D atlases enable cellome-wide profiling. Cell, 189(6), 1836.

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Watanabe S, et al. (2026) Clinically Applicable Machine Learning Approach to Predict Intracerebral Hematoma Expansion. *Journal of the American Heart Association*, 15(1), e042387.

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Zhang PQ, et al. (2026) Neural representations of beliefs in a multi-dimensional inference task. *bioRxiv : the preprint server for biology*.

Li Y, et al. (2026) A One-Dimensional (1D) Computational Fluid Dynamics Study of Fontan-Associated Liver Disease (FALD). *International journal for numerical methods in biomedical engineering*, 42(1), e70128.

Koguchi K, et al. (2026) Observation of the internal structure of the mandible related to implant placement in the mandibular anterior region. *Anatomy & cell biology*, 59(2), 287.

Pan X, et al. (2026) CT-based radiomics nomogram for preoperative prediction of Ki-67 in lung neuroendocrine neoplasms: a multicenter study. *BMC medical imaging*, 26(1), 93.

Wang JH, et al. (2026) Peritumoural adipose tissue drives immune evasion in colorectal cancer via adipose-mesenchymal transformation. *Nature cell biology*, 28(3), 581.

Duenweg SR, et al. (2026) Radio-pathomic maps of histo-morphometric features trained with whole mount prostate histology distinguish prostate cancer on MP-MRI. *medRxiv : the preprint server for health sciences*.

Shi L, et al. (2026) Clinical-Radiomics Signature Predicts Pathologic Complete Response After Neoadjuvant Therapy in Oesophageal Squamous Cell Carcinoma. *Interdisciplinary cardiovascular and thoracic surgery*, 41(2).