

Resource Summary Report

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ITK-SNAP

RRID:SCR_002010

Type: Tool

Proper Citation

ITK-SNAP (RRID:SCR_002010)

Resource Information

URL: <http://www.nitrc.org/projects/itk-snap/>

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Description: Open source interactive software application for three dimensional medical images, manual delineation of anatomical regions of interest, and performing automatic image segmentation. Used for delineating anatomical structures and regions in MRI, CT and other 3D biomedical imaging data. WebGL-based viewer for volumetric data. It is capable of displaying arbitrary (non axis-aligned) cross-sectional views of volumetric data, as well as 3-D meshes and line-segment based models (skeletons).

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

Defining Citation: [PMID:29946897](#)

Keywords: medical, image, segmentation, delineating, anatomical, structure, region, MRI, CT, 3D image, data

Funding: NIBIB R01 EB014346

Availability: Free, Available for download, Freely available

Resource Name: ITK-SNAP

Resource ID: SCR_002010

Alternate IDs: nif-0000-00317

Alternate URLs: <https://github.com/google/neuroglancer>,
<https://opensource.google.com/projects/neuroglancer>

License: GNU GPL

Record Creation Time: 20220129T080211+0000

Record Last Update: 20260829T182057+0000

Ratings and Alerts

No rating or validation information has been found for ITK-SNAP.

No alerts have been found for ITK-SNAP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2647 mentions in open access literature.

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

Cai W, et al. (2026) Comprehensive Numerical and Experimental Investigations on Endolaryngeal Mobilization. Laryngoscope investigative otolaryngology, 11(2), e70419.

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.

Sun Z, et al. (2026) Noninvasive Imaging Assessment of Tertiary Lymphoid Structures and Immunotherapy Response in Gastric Cancer: A Multicenter Study. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(8), 1486.

Roger E, et al. (2026) ATM Deficiency Induces TGF β -Mediated Stromal Programming in Pancreatic Cancer. Cancer research, 86(14), 3412.

Debebe SK, et al. (2026) Ultrasound-guided selective occlusion of uteroplacental canal vessels in the mouse alters fetal growth and placental development. American journal of physiology. Heart and circulatory physiology.

Li F, et al. (2026) Enhancing diagnosis of mild cognitive impairment through brain-heart-gut metabolic networks in whole-body PET imaging. Cell reports. Medicine, 7(2), 102629.

Sirmpilatze N, et al. (2026) An open-source three-dimensional digital brain atlas of a migratory bird, the Eurasian blackcap. Current biology : CB, 36(8), 2063.

de Launoit E, et al. (2026) The spatiotemporal dynamics of postnatal vascularization in the mouse brain. Cell, 189(10), 3107.

Casanova-Pagola J, et al. (2026) Early-life cognitive intervention preserves brain function in aged TgF344-AD rats with sex-specific effects. iScience, 29(1), 114381.

- Jullienne A, et al. (2026) Regional brain and cerebrovasculature morphology during normative aging in male and female C57BL/6N mice. *Frontiers in aging neuroscience*, 18, 1852741.
- David MA, et al. (2026) Demystifying machine learning approaches in digital bone imaging using microCT and HRpQCT. *Bone reports*, 29, 101911.
- Putti E, et al. (2026) Lrrn-mediated retinal ganglion cell targeting drives visual circuit assembly for brightness and contrast detection. *Science advances*, 12(4), eadz4585.
- Lu X, et al. (2026) Probing molecular diversity and ultrastructure of brain cells with fluorescent aptamers. *Nature communications*, 17(1).
- Wang W, et al. (2026) Convergence-divergence circuits for multimodal integration of innate and learned opponent valences. *Frontiers in systems neuroscience*, 20, 1822122.
- Hvass CR, et al. (2026) Estimation of metabolic water production in human and rat brain and spinal cord. *Fluids and barriers of the CNS*, 23(1), 26.
- Blazey T, et al. (2026) Task-evoked deactivations: dissociation between BOLD fMRI and FDG. *bioRxiv : the preprint server for biology*.
- Jiang J, et al. (2025) Interpretable multimodal deep learning model for predicting post-surgical international society of urological pathology grade in primary prostate cancer. *European journal of nuclear medicine and molecular imaging*, 52(10), 3730.
- Yang F, et al. (2025) Deep learning reconstruction for accelerating synthetic magnetic resonance imaging of the breast: a comparative analysis of accelerated and standard protocols. *Quantitative imaging in medicine and surgery*, 15(10), 8953.
- Pournajaf S, et al. (2025) Fingolimod Inhibits C6 Rat Glioma Proliferation and Migration, Induces Sub-G1 Cell Cycle Arrest, Mitochondrial and Extrinsic Apoptosis In Vitro and Reduces Tumour Growth In Vivo. *Clinical and experimental pharmacology & physiology*, 52(1), e70012.
- Yu R, et al. (2025) Prediction of thyroid function based on CT radiomics: a two-center study. *Quantitative imaging in medicine and surgery*, 15(12), 12190.