Resource Summary Report

Generated by RRID on Aug 2, 2026

FluoRender

RRID:SCR_014303
Type: Tool

Proper Citation

FluoRender (RRID:SCR_014303)

Resource Information

URL: http://www.sci.utah.edu/software/fluorender.html

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Description: Interactive rendering tool for confocal microscopy data visualization. Combines rendering of multi-channel volume data and polygon mesh data, where properties of each dataset can be adjusted independently and quickly. Designed for neurobiologists, allowing them to better visualize confocal data from fluorescently-stained brains, but it is also useful for other biological samples. Features include feature tracking, 3D measurement tools, multiple render modes for multi-channel confocal data, and volume paint selection and segmentation.

Synonyms: FluoRender Visualization

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

Keywords: rendering tool, confocal microscopy data visualization, neurobiology, fluorescent stain, brain, bio.tools

Availability: Free, Available for download, Freely available

Resource Name: FluoRender

Resource ID: SCR_014303

Alternate IDs: biotools:fluorender

Alternate URLs: https://bio.tools/fluorender

Record Creation Time: 20220129T080320+0000

Record Last Update: 20260801T190500+0000

Ratings and Alerts

No rating or validation information has been found for FluoRender.

No alerts have been found for FluoRender.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 127 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Berg K, et al. (2025) Endocardial primary cilia and blood flow regulate EndoMT during endocardial cushion development. Nature cardiovascular research, 4(9), 1114.

Ouyang Z, et al. (2025) Elucidating subcellular architecture and dynamics at isotropic 100-nm resolution with 4Pi-SIM. Nature methods, 22(2), 335.

Egawa R, et al. (2025) Activity-dependent refinement of axonal projections forms one-to-one connection pattern in the developing chick ciliary ganglion. Frontiers in cellular neuroscience, 19, 1560402.

Chi Z, et al. (2025) The arabidopsis WAVE/SCAR protein BRICK1 associates with cell edges and plasmodesmata. PloS one, 20(9), e0325015.

Sato N, et al. (2025) Chloroplasts with clefts and holes: a reassessment of the chloroplast shape using 3D FE-SEM cellular reconstruction of two species of Chlamydomonas. Protoplasma, 262(1), 207.

Lusk S, et al. (2025) Increased Netrin downstream of overactive Hedgehog signaling disrupts optic fissure formation. Developmental dynamics : an official publication of the American Association of Anatomists, 254(2), 158.

Watanabe K, et al. (2024) Whole-brain in situ mapping of neuronal activation in Drosophila during social behaviors and optogenetic stimulation. eLife, 12.

Ono K, et al. (2024) Contributions of mirror-image hair cell orientation to mouse otolith organ and zebrafish neuromast function. bioRxiv : the preprint server for biology.

Mai MH, et al. (2024) Relieving the transfusion tissue traffic jam: a network model of radial transport in conifer needles. The New phytologist, 244(6), 2183.

Lusk S, et al. (2024) Increased Netrin downstream of overactive Hedgehog signaling disrupts optic fissure formation. bioRxiv : the preprint server for biology.

Vanlauwe F, et al. (2024) Small molecular weight alginate gel porogen for the 3D bioprinting of microvasculature. Frontiers in bioengineering and biotechnology, 12, 1452477.

Suzuki T, et al. (2024) The odor of a nontoxic tetrodotoxin analog, 5,6,11-trideoxytetrodotoxin, is detected by specific olfactory sensory neurons of the green spotted puffers. Chemical senses, 49.

Samson SC, et al. (2024) Tenascin-C in the early lung cancer tumor microenvironment promotes progression through integrin ?v?1 and FAK. bioRxiv : the preprint server for biology.

Xia H, et al. (2024) Sensory innervation in the prostate and a role for calcitonin gene-related peptide in prostatic epithelial proliferation. Frontiers in molecular neuroscience, 17, 1497735.

Eichler K, et al. (2024) Somatotopic organization among parallel sensory pathways that promote a grooming sequence in Drosophila. eLife, 12.

Collins BC, et al. (2024) Three-dimensional imaging studies in mice identify cellular dynamics of skeletal muscle regeneration. Developmental cell, 59(11), 1457.

Luo S, et al. (2023) Iridocorneal angle imaging of a human donor eye by spectral-domain optical coherence tomography. Scientific reports, 13(1), 13861.

Wohl MP, et al. (2023) Drosophila Tachykininergic Neurons Modulate the Activity of Two Groups of Receptor-Expressing Neurons to Regulate Aggressive Tone. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(19), 3394.

Han Y, et al. (2023) Three-dimensional multi-color optical nanoscopy at sub-10-nm resolution based on small-molecule organic probes. Cell reports methods, 3(9), 100556.

Watanabe K, et al. (2023) HI-FISH: WHOLE BRAIN IN SITU MAPPING OF NEURONAL ACTIVATION IN DROSOPHILA DURING SOCIAL BEHAVIORS AND OPTOGENETIC STIMULATION. bioRxiv : the preprint server for biology.