

Resource Summary Report

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

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: 20260806T054607+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 [nidm-terms](#) .

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

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

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.

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

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.

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.

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*.

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

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

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

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 $\alpha 5 \beta 1$ 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.

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*.