

Resource Summary Report

Generated by SPARC SAWG on Jul 28, 2026

ObjectFinder

RRID:SCR_023319

Type: Tool

Proper Citation

ObjectFinder (RRID:SCR_023319)

Resource Information

URL: <https://github.com/lucadellasantina/ObjectFinder>

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Description: Software image analysis package for 3D object recognition in volumetric images developed for neuroscience research purposes. MATLAB application to recognize small structures in large volumetric image, plot their statistics and perform quantitative analysis such as nearest neighbor and colocalization analysis. Used to detect fluorescently labeled synapses in neuronal image stacks acquired using confocal or super resolution microscopes.

Resource Type: data visualization software, 3d visualization software, 2d spatial image, image, image analysis software, software resource, software application, 3d spatial image, data processing software, data or information resource

Keywords: 3D object recognition, volumetric images, neuroscience, recognize small structures in large volumetric images, detect fluorescently labeled synapses, neuronal image stacks,

Resource Name: ObjectFinder

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Alternate URLs: <https://lucadellasantina.github.io/ObjectFinder/>

License: GNU GPL v3

Record Creation Time: 20230307T050214+0000

Record Last Update: 20260728T043654+0000

Ratings and Alerts

No rating or validation information has been found for ObjectFinder.

No alerts have been found for ObjectFinder.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Yu A, et al. (2025) Microglia target synaptic sites early during excitatory circuit disassembly in neurodegeneration. *iScience*, 28(4), 112201.

Kiraly JK, et al. (2025) Slit2/Robo1 signaling constrains image stabilization responses to preserve ethologically favorable directional asymmetry. *Current biology : CB*.

Solomon M, et al. (2023) Large-scale survey of excitatory synapses reveals sublamina-specific and asymmetric synapse disassembly in a neurodegenerative circuit. *iScience*, 26(8), 107262.

Harris SC, et al. (2023) Asymmetric retinal direction tuning predicts optokinetic eye movements across stimulus conditions. *eLife*, 12.

Maddox JW, et al. (2020) A dual role for Cav1.4 Ca²⁺ channels in the molecular and structural organization of the rod photoreceptor synapse. *eLife*, 9.