CellProfiler Image Analysis Software

RRID:SCR_007358
Type: Tool

Proper Citation

CellProfiler Image Analysis Software (RRID:SCR_007358)

Resource Information

URL: http://cellprofiler.org

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Description: CellProfiler cell image analysis software is free and open-source software designed to enable biologists without training in computer vision or programming to quantitatively measure phenotypes from thousands of images automatically. It counts cells and also measures the size, shape, intensity and texture of every cell (and every labeled subcellular compartment) in every image. It was designed for high throughput screening but can perform automated image analysis for images from time-lapse movies and low-throughput experiments. CellProfiler has an increasing number of algorithms to identify and measure properties of neuronal cell types.

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

References: PMID:21349861, PMID:17076895, PMID:19014601, PMID:19188593

Keywords: high-throughput, high content imaging, software, image, cell, phenotype, measurement, subcellular, intensity, size, shape, analysis, algorithm

Parent Organization: Broad Institute

Funding Agency: NHGRI, NIGMS

Related resources: CellProfiler Analyst

Availability: Open source, Free, Available for download, Acknowledgement requested
Website Status: Last checked up

Resource Name: CellProfiler Image Analysis Software

Resource ID: SCR_007358

Alternate IDs: nif-0000-00280, nlx_66812, SCR_010649

Ratings and Alerts

No rating or validation information has been found for CellProfiler Image Analysis Software.

No alerts have been found for CellProfiler Image Analysis Software.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1323 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.


Baquero JM, et al. (2021) Small molecule inhibitor of OGG1 blocks oxidative DNA damage repair at telomeres and potentiates methotrexate anticancer effects. Scientific reports, 11(1), 3490.


Prentzell MT, et al. (2021) G3BPs tether the TSC complex to lysosomes and suppress
mTORC1 signaling. Cell, 184(3), 655-674.e27.


Kaczmarczyk L, et al. (2021) Slc1a3-2A-CreERT2 mice reveal unique features of Bergmann glia and augment a growing collection of Cre drivers and effectors in the 129S4 genetic background. Scientific reports, 11(1), 5412.


Hummell NA, et al. (2021) Novel Immune Modulators Enhance Resistance to Multiple Pathogens. mSphere, 6(1).
