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: Software tool 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.

Synonyms: Cell Profiler, CellProfiler - cell image analysis software

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

Defining Citation: 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

Funding Agency: NIGMS, NHGRI

Availability: Free, Available for download, Freely available

Resource Name: CellProfiler Image Analysis Software

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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 2062 mentions in open access literature.

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

Pavluch V, et al. (2023) Possible frequent multiple mitochondrial DNA copies in a single nucleoid in HeLa cells. Scientific reports, 13(1), 5788.


Kolbinger A, et al. (2023) Eosinophil-derived IL-4 is necessary to establish the inflammatory structure in innate inflammation. EMBO molecular medicine, 15(2), e16796.


Mathur P, et al. (2023) Transcription factor EB regulates phosphatidylinositol-3-phosphate levels that control lysosome positioning in the bladder cancer model. Communications biology, 6(1), 114.


Pinto BJ, et al. (2023) A lizard is never late: squamate genomics as a recent catalyst for understanding sex chromosome and microchromosome evolution. bioRxiv : the preprint server for biology.

Ro?ianu F, et al. (2023) Loss of NDR1/2 kinases impairs endomembrane trafficking and autophagy leading to neurodegeneration. Life science alliance, 6(2).


Lebdy R, et al. (2023) The organizer of chromatin topology RIF1 ensures cellular resilience to DNA replication stress. Life science alliance, 6(4).