

Resource Summary Report

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

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: NIGMS R01 GM089652;
NIGMS RC2 GM092519;
NHGRI RL1 HG004671

Availability: Free, Available for download, Freely available

Resource Name: CellProfiler Image Analysis Software

Resource ID: SCR_007358

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

Alternate URLs: <https://sources.debian.org/src/cellprofiler/>

License: BSD License

Record Creation Time: 20220129T080241+0000

Record Last Update: 20260731T042741+0000

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 3265 mentions in open access literature.

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

Lasse Opsahl EL, et al. (2026) Fibroblast STAT3 Activation Drives Organ-Specific Premetastatic Niche Formation. Cancer research, 86(1), 22.

Pan T, et al. (2026) MEN1 Promotes Ferroptosis by Disrupting CD44 Alternative Splicing to Suppress Lung Cancer. Cancer research, 86(1), 146.

Ma Y, et al. (2026) Exploiting the polypharmacology of alectinib for synergistic RNA splicing disruption with RBM39 degraders. Cell reports, 45(1), 116784.

Molè MA, et al. (2026) Modeling human embryo implantation in vitro. Cell, 189(1), 87.

Kim Y, et al. (2025) Vascular Microphysiological System for Investigating Endothelial Barrier Function During Organ Preservation and Reperfusion. Small (Weinheim an der Bergstrasse, Germany), 21(11), e2410168.

Fan L, et al. (2025) Yes-associated protein plays oncogenic roles in human sporadic colorectal adenomas. Carcinogenesis, 46(1).

Kartnig F, et al. (2025) Ex vivo imaging-based high content phenotyping of patients with rheumatoid arthritis. EBioMedicine, 111, 105522.

Schlesinger D, et al. (2025) A large-scale sORF screen identifies putative microproteins involved in cancer cell fitness. iScience, 28(3), 111884.

Liegeois MA, et al. (2025) Cellular and molecular features of asthma mucus plugs provide clues about their formation and persistence. The Journal of clinical investigation, 135(6).

Krass M, et al. (2025) Recombinant Expression of a Ready-to-Use EGF Variant Equipped With a Single Conjugation Site for Click-Chemistry. *Engineering in life sciences*, 25(3), e70015.

Buri MV, et al. (2025) cAmbly: A non-toxic cell-penetrating peptide derived from Amblyomin-X with targeted delivery to mitochondrial and cytoplasmic proteins. *PloS one*, 20(3), e0318119.

Goelzer M, et al. (2025) Depletion of SUN1/2 induces heterochromatin accrual in mesenchymal stem cells during adipogenesis. *Communications biology*, 8(1), 428.

Chawla Y, et al. (2025) Lactate metabolism in clonal plasma cells and its therapeutic implications in multiple myeloma patients with elevated serum LDH levels. *Cancer & metabolism*, 13(1), 9.

Lovejoy CA, et al. (2025) SRBD1 facilitates chromosome segregation by promoting topoisomerase II γ localization to mitotic chromosomes. *Nature communications*, 16(1), 1675.

Anastasio G, et al. (2025) Enhancing PDAC therapy: Decitabine-olaparib synergy targets KRAS-dependent tumors. *iScience*, 28(2), 111842.

Cai Y, et al. (2025) Subcellular proteomics and iPSC modeling uncover reversible mechanisms of axonal pathology in Alzheimer's disease. *Nature aging*, 5(3), 504.

Paltenghi C, et al. (2025) Genetic suppression interactions are highly conserved across genetically diverse yeast isolates. *G3 (Bethesda, Md.)*, 15(5).

Wulfmeier KM, et al. (2025) In Vitro and In Vivo Radiotoxicity and Biodistribution of Thallium-201 Delivered to Cancer Cells by Prussian Blue Nanoparticles. *ACS applied materials & interfaces*, 17(9), 13577.

Arias-Arias JL, et al. (2025) A Live-Cell Imaging-Based Fluorescent SARS-CoV-2 Neutralization Assay by Antibody-Mediated Blockage of Receptor Binding Domain-ACE2 Interaction. *Biotech (Basel (Switzerland))*, 14(1).

Smarduch S, et al. (2025) A novel biosensor for the spatiotemporal analysis of STING activation during innate immune responses to dsDNA. *The EMBO journal*, 44(7), 2157.