

Resource Summary Report

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scikit-image

RRID:SCR_021142

Type: Tool

Proper Citation

scikit-image (RRID:SCR_021142)

Resource Information

URL: <https://scikit-image.org/>

Proper Citation: scikit-image (RRID:SCR_021142)

Description: Open source software tool as collection of image processing algorithms implemented in Python programming language. Image processing library that implements algorithms and utilities developed by active, international team of collaborators.

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

Defining Citation: [DOI:10.7717/peerj.453](https://doi.org/10.7717/peerj.453)

Keywords: Image processing toolkit, Python, image processing library, algorithms collection

Availability: Free, Available for download, Freely available

Resource Name: scikit-image

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Ratings and Alerts

No rating or validation information has been found for scikit-image.

No alerts have been found for scikit-image.

Data and Source Information

Usage and Citation Metrics

We found 66 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Deryabin A, et al. (2024) Human RPF1 and ESF1 in Pre-rRNA Processing and the Assembly of Pre-Ribosomal Particles: A Functional Study. *Cells*, 13(4).

Steebans B, et al. (2024) Protocol to train a support vector machine for the automatic curation of bacterial cell detections in microscopy images. *STAR protocols*, 5(1), 102868.

Kang SWS, et al. (2024) A spatial map of hepatic mitochondria uncovers functional heterogeneity shaped by nutrient-sensing signaling. *Nature communications*, 15(1), 1799.

Nyman J, et al. (2023) Spatially aware deep learning reveals tumor heterogeneity patterns that encode distinct kidney cancer states. *Cell reports. Medicine*, 4(9), 101189.

Liu L, et al. (2023) Protocol to analyze fundus images for multidimensional quality grading and real-time guidance using deep learning techniques. *STAR protocols*, 4(4), 102565.

Wang H, et al. (2023) Drone-Based Harvest Data Prediction Can Reduce On-Farm Food Loss and Improve Farmer Income. *Plant phenomics (Washington, D.C.)*, 5, 0086.

Hou Y, et al. (2023) Axonal stimulation affects the linear summation of single-point perception in three Argus II users. *medRxiv : the preprint server for health sciences*.

Grenko CM, et al. (2023) Single-cell transcriptomic profiling of human pancreatic islets reveals genes responsive to glucose exposure over 24 hours. *bioRxiv : the preprint server for biology*.

Kang SWS, et al. (2023) A spatial map of hepatic mitochondria uncovers functional heterogeneity shaped by nutrient-sensing signaling. *bioRxiv : the preprint server for biology*.

Salehi M, et al. (2023) Deep Learning-based Non-rigid Image Registration for High-dose Rate Brachytherapy in Inter-fraction Cervical Cancer. *Journal of digital imaging*, 36(2), 574.

Lin AZ, et al. (2023) Dynamical control enables the formation of demixed biomolecular condensates. *Nature communications*, 14(1), 7678.

Wang X, et al. (2023) Rab12 is a regulator of LRRK2 and its activation by damaged lysosomes. *eLife*, 12.

Szabo M, et al. (2023) The kynurenic acid analog SZR104 induces cytomorphological changes associated with the anti-inflammatory phenotype in cultured microglia. *Scientific reports*, 13(1), 11328.

McLean ZL, et al. (2023) PMS1 as a target for splice modulation to prevent somatic CAG repeat expansion in Huntington's disease. *bioRxiv : the preprint server for biology*.

Kim EN, et al. (2023) Dual-modality imaging of immunofluorescence and imaging mass cytometry for whole slide imaging with accurate single-cell segmentation. *bioRxiv : the preprint server for biology*.

Kylies D, et al. (2023) Expansion-enhanced super-resolution radial fluctuations enable nanoscale molecular profiling of pathology specimens. *Nature nanotechnology*, 18(4), 336.

Quinones-Olvera N, et al. (2023) Diverse and Abundant Viruses Exploit Conjugative Plasmids. *bioRxiv : the preprint server for biology*.

Knighten JM, et al. (2023) Algorithm for biological second messenger analysis with dynamic regions of interest. *PloS one*, 18(5), e0284394.

Feng R, et al. (2023) A knowledge-integrated deep learning framework for cellular image analysis in parasite microbiology. *STAR protocols*, 4(3), 102452.

Fang Z, et al. (2023) Subcellular spatially resolved gene neighborhood networks in single cells. *Cell reports methods*, 3(5), 100476.