

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://fdi-lab.sci-crunch.org/) on May 20, 2025

[icy](https://www.biorxiv.org/content/10.1101/010587v1)

RRID:SCR_010587

Type: Tool

Proper Citation

icy (RRID:SCR_010587)

Resource Information

URL: <http://icy.bioimageanalysis.org/>

Proper Citation: icy (RRID:SCR_010587)

Description: An open community platform for bioimage informatics providing the software resources to visualize, annotate and quantify bioimaging data. To bridge the gap between developers and users, it combines: a) an open-source image analysis software, offering a powerful and flexible environment for developers such as applied mathematicians to write algorithms fast and efficiently; b) a common set of tools to view and manipulate data, and a set of plugins to perform specific quantification or analysis on images; c) a community-based website centralizing all plugins and resources to facilitate their management and maximize their visibility towards users. Workspaces are virtual groups of plugins dedicated to a specific application or image processing domain. By downloading a workspace, ICY automatically installs all corresponding plugins. The workspaces are enabled, but the editing section is not ready yet. If you want to publish a plugin on this website, its code has to be GPL. Source code is available and provided in each application download.

Abbreviations: ICY

Synonyms: icy bioimage analysis

Resource Type: software application, image processing software, source code, service resource, data processing software, software development environment, image analysis software, software resource, software repository, software development tool

Defining Citation: [PMID:22743774](https://pubmed.ncbi.nlm.nih.gov/22743774/)

Keywords: image analysis, microscopy, javascript, python, plugin, protocol, script, bio.tools

Funding: Centre National de la Recherche Scientifique ;

French National Research Agency ANR-10-INBS-04-06

Availability: Free, Open unspecified license, GNU General Public License, v3, The community can contribute to this resource

Resource Name: icy

Resource ID: SCR_010587

Alternate IDs: biotools:icy, nlx_45928

Alternate URLs: <https://bio.tools/icy>

Record Creation Time: 20220129T080259+0000

Record Last Update: 20250519T203617+0000

Ratings and Alerts

No rating or validation information has been found for icy.

No alerts have been found for icy.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 298 mentions in open access literature.

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

Dupré N, et al. (2024) Protein aggregates containing wild-type and mutant NOTCH3 are major drivers of arterial pathology in CADASIL. The Journal of clinical investigation, 134(8).

Very N, et al. (2024) O-GlcNAcylation controls pro-fibrotic transcriptional regulatory signaling in myofibroblasts. Cell death & disease, 15(6), 391.

Galbusera F, et al. (2024) Image annotation and curation in radiology: an overview for machine learning practitioners. European radiology experimental, 8(1), 11.

Huret C, et al. (2024) Altered X-chromosome inactivation predisposes to autoimmunity. Science advances, 10(18), eadn6537.

Palacios-Rápalo SN, et al. (2024) Protocol to evaluate the antiviral effect of FDA-approved drugs against dengue virus in Huh7 cells and AG129 mice. *STAR protocols*, 5(2), 102992.

Eroshkin FM, et al. (2024) Mechanical Tensions Regulate Gene Expression in the *Xenopus laevis* Axial Tissues. *International journal of molecular sciences*, 25(2).

Quesnel A, et al. (2024) Uncovering potential diagnostic and pathophysiological roles of α -synuclein and DJ-1 in melanoma. *Cancer medicine*, 13(1).

Jang S, et al. (2024) HIV-1 usurps mixed-charge domain-dependent CPSF6 phase separation for higher-order capsid binding, nuclear entry and viral DNA integration. *Nucleic acids research*, 52(18), 11060.

Jo L, et al. (2024) ggPlantmap: an open-source R package for the creation of informative and quantitative ggplot maps derived from plant images. *Journal of experimental botany*, 75(17), 5366.

Jurida L, et al. (2024) A common gene signature of the right ventricle in failing rat and human hearts. *Nature cardiovascular research*, 3(7), 819.

Kourkoulou A, et al. (2024) A type II phosphatidylinositol-4-kinase coordinates sorting of cargo polarizing by endocytic recycling. *Communications biology*, 7(1), 855.

Wiessler AL, et al. (2024) Role of the Glycine Receptor γ Subunit in Synaptic Localization and Pathogenicity in Severe Startle Disease. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(2).

Hanson A, et al. (2024) Automatic monitoring of neural activity with single-cell resolution in behaving *Hydra*. *Scientific reports*, 14(1), 5083.

Fernández-Calvet A, et al. (2024) Gut microbiota produces biofilm-associated amyloids with potential for neurodegeneration. *Nature communications*, 15(1), 4150.

Deshpande A, et al. (2024) Elasticity of the HIV-1 core facilitates nuclear entry and infection. *PLoS pathogens*, 20(9), e1012537.

Notario Manzano R, et al. (2024) Proteomic landscape of tunneling nanotubes reveals CD9 and CD81 tetraspanins as key regulators. *eLife*, 13.

Liu P, et al. (2024) Software Tools for 2D Cell Segmentation. *Cells*, 13(4).

Gifford LB, et al. (2024) HIV-1 Capsid Uncoating Is a Multistep Process That Proceeds through Defect Formation Followed by Disassembly of the Capsid Lattice. *ACS nano*, 18(4), 2928.

Liebau RC, et al. (2024) Transcription-Coupled Repair of DNA Interstrand Crosslinks by UVSSA. *bioRxiv : the preprint server for biology*.

Sparkes PC, et al. (2024) Mitochondrial ATP synthesis is essential for efficient

gametogenesis in *Plasmodium falciparum*. *Communications biology*, 7(1), 1525.