

Resource Summary Report

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[icy](#)

RRID:SCR_010587

Type: Tool

Proper Citation

icy (RRID:SCR_010587)

Resource Information

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

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

Defining Citation: [PMID: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: 20260903T235019+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 355 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Inquimbert P, et al. (2026) Divergence in μ and κ opioid receptor pharmacology in neurons and antinociceptive efficacy in neuropathic pain: Insights from MP135 and CYM51010. British journal of pharmacology.

Müller TG, et al. (2026) Lenacapavir-induced capsid damage uncovers HIV-1 genomes emanating from nuclear speckles. The EMBO journal, 45(2), 449.

Cazottes E, et al. (2026) Remodeling of XIST regulatory landscape during primate evolution. Science advances, 12(3), eadw5839.

Borikov O, et al. (2026) Automated method for determining the zeta potential of red blood cells via motion tracking in microelectrophoresis. Biochemistry and biophysics reports, 47, 102662.

Preira CMF, et al. (2026) Sporozoite egress from Plasmodium oocysts requires a trimeric NF-Y-like complex. Communications biology, 9(1).

Wang Y, et al. (2026) A CAM bioimaging model reveals the connection between VEGFA vascular remodeling and enhanced sarcoma progression via tumor secretome. Scientific reports, 16(1).

- Hong J, et al. (2026) The host protein cyclophilin A restricts nuclear entry of HIV-1 mutants by reducing the elasticity of the viral capsid. *PLoS pathogens*, 22(1), e1013910.
- Avdoshina D, et al. (2026) Efficacy of Plasmid DNA Delivery into Mice by Intradermal Injections Alone and Facilitated by Sonoporation or Electroporation. *Vaccines*, 14(1).
- Torres-Rivera D, et al. (2026) Super-Resolution Imaging of Nuclear Pore Responses to Mechanical Stress and Energy Depletion. *Viruses*, 18(2).
- Berg LS, et al. (2026) The developing leaf of the wild grass *Brachypodium distachyon* at single-cell resolution. *The Plant cell*, 38(6).
- Konishi S, et al. (2026) TP53/TAU axis regulates microtubule bundling to control alveolar stem cell-mediated regeneration. *The Journal of clinical investigation*, 136(7).
- Kelkoul I, et al. (2026) Synchrotron XRF Imaging Reveals Manganese Accumulation in the Golgi and Post-Synapses of Neurons and Enhanced Uptake in Astrocytes. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(34), e20364.
- Rankovic B, et al. (2026) RNA promotes synapsin phase separation providing a platform for local translation. *bioRxiv : the preprint server for biology*.
- Vavers E, et al. (2026) Simultaneous Expression of Sigma-1 Receptor and Tetraspanins Highlights Pathways of Receptor Sorting Into Extracellular Vesicles. *Journal of neurochemistry*, 170(4), e70426.
- Ranaweera A, et al. (2026) Capsid and integrase play essential apposing roles in viral ribonucleoprotein assembly during HIV-1 core morphogenesis. *iScience*, 29(7), 116378.
- Cheong HSJ, et al. (2026) Organization of circuits linking descending input to motor output in the *Drosophila* Male Adult Nerve Cord connectome. *eLife*, 13.
- Mohammadi N, et al. (2025) Sympathetic neurons can modify the intrinsic structural and functional properties of human pluripotent stem cell-derived cardiomyocytes. *The Journal of physiology*, 603(7), 2089.
- Torcq L, et al. (2025) Single Molecule Fluorescence In Situ Hybridization Using RNAscope to Study Hematopoietic and Vascular Interactions in the Zebrafish Embryo and Larva. *Bio-protocol*, 15(7), e5269.
- Wang H, et al. (2025) Protocol for HIV-1 budding control by inducible inhibition of ESCRT-III. *STAR protocols*, 6(2), 103808.
- Colombi P, et al. (2025) Protocol to measure temporal consumption and feeding choices of *Drosophila* adults using capillaries. *STAR protocols*, 6(3), 103931.