

Resource Summary Report

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CHIPS

RRID:SCR_015741

Type: Tool

Proper Citation

CHIPS (RRID:SCR_015741)

Resource Information

URL: <https://github.com/EIN-lab/CHIPS>

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Description: Image processing software designed to analyse functional images of cells and blood vessels, primarily from two-photon microscopy. CHIPS is a set of classes and functions for MATLAB that integrates a number of algorithms, both novel and existing, into a complete image processing pipeline.

Abbreviations: CHIPS

Synonyms: Cellular and Hemodynamic Image Processing Suite, CHIPS: an open-source Cellular and Hemodynamic Image Processing Suite

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

Keywords: image processing, blood vessel, photon microscopy, matlab, cell, hemodynamic

Availability: Open source, Available for download, Runs on Mac OS, Runs on Windows, Runs on Linux

Resource Name: CHIPS

Resource ID: SCR_015741

License: GNU General Public License v3.0

License URLs: <https://github.com/EIN-lab/CHIPS/blob/master/LICENSE.txt>

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260728T043506+0000

Ratings and Alerts

No rating or validation information has been found for CHIPS.

No alerts have been found for CHIPS.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 210 mentions in open access literature.

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

Sospedra-Arrufat I, et al. (2025) Epigenomic signatures of cis-regulatory elements in the developing mouse and pig forelimb. *Scientific data*, 12(1), 598.

Tallan A, et al. (2025) Highly quantitative measurement of differential protein-genome binding with PerCell chromatin sequencing. *Cell reports methods*, 5(6), 101052.

Meza-Resillas J, et al. (2025) Systemic nimodipine affects pericyte calcium signaling, resting hemodynamics and neurovascular coupling in healthy mouse brain. *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 22(5), e00614.

Li Z, et al. (2025) KDM4C inhibition blocks tumor growth in basal breast cancer by promoting cathepsin L-mediated histone H3 cleavage. *Nature genetics*, 57(6), 1463.

Suter T, et al. (2025) Ligand-specific regulation of a binary enhancer code dictating cellular senescence. *Proceedings of the National Academy of Sciences of the United States of America*, 122(24), e2506321122.

Ahmadpour N, et al. (2024) Cortical astrocyte N-methyl-D-aspartate receptors influence whisker barrel activity and sensory discrimination in mice. *Nature communications*, 15(1), 1571.

Brussee M, et al. (2024) Isolation of Methane from Ambient Water and Preparation for Source-Diagnostic Natural Abundance Radiocarbon Analysis. *Analytical chemistry*, 96(44), 17631.

Grosshans D, et al. (2024) Subcellular functions of tau mediates repair response and synaptic homeostasis in injury. *Research square*.

Ma F, et al. (2024) Three-dimensional chromatin reorganization regulates B cell development during ageing. *Nature cell biology*, 26(6), 991.

Fan P, et al. (2024) Monitoring of *Klebsiella pneumoniae* Infection and Drug Resistance in 17 Pediatric Intensive Care Units in China from 2016 to 2022. *Infection and drug*

resistance, 17, 4125.

Chaila MJ, et al. (2024) Assessment of a screening tool to aid home-based identification of adolescents (aged 10-14) living with HIV in Zambia and South Africa: HPTN 071 (PopART) study. *PloS one*, 19(2), e0266573.

Le Prevost M, et al. (2024) Factors associated with engagement in HIV care for young people living with perinatally acquired HIV in England: An exploratory observational cohort study. *PloS one*, 19(5), e0302601.

Looser ZJ, et al. (2024) Oligodendrocyte-axon metabolic coupling is mediated by extracellular K⁺ and maintains axonal health. *Nature neuroscience*, 27(3), 433.

Lv G, et al. (2024) mTORC2-driven chromatin cGAS mediates chemoresistance through epigenetic reprogramming in colorectal cancer. *Nature cell biology*, 26(9), 1585.

Taing L, et al. (2024) Cistrome Data Browser: integrated search, analysis and visualization of chromatin data. *Nucleic acids research*, 52(D1), D61.

Fei B, et al. (2024) Intelligent cholinergic white matter pathways algorithm based on U-net reflects cognitive impairment in patients with silent cerebrovascular disease. *Stroke and vascular neurology*, 9(6), 699.

Poluben L, et al. (2024) Increased nuclear factor I-mediated chromatin access drives transition to androgen receptor splice variant dependence in prostate cancer. *Cell reports*, 44(1), 115089.

Di Florio DN, et al. (2024) Sex differences in mitochondrial gene expression during viral myocarditis. *Biology of sex differences*, 15(1), 104.

Azizan S, et al. (2023) The *P. falciparum* alternative histones Pf H2A.Z and Pf H2B.Z are dynamically acetylated and antagonized by PfSir2 histone deacetylases at heterochromatin boundaries. *mBio*, 14(6), e0201423.

Skalland T, et al. (2023) Community- and individual-level correlates of HIV incidence in HPTN 071 (PopART). *Journal of the International AIDS Society*, 26(8), e26155.