

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, data processing software, image processing software, software resource

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: 20260811T043526+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 213 mentions in open access literature.

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

Zhang Y, et al. (2026) A conserved hormonal signalling-H2A.Z axis rapidly reorganizes 3D chromatin interactions in adipocyte thermogenesis. *Nature metabolism*, 8(5), 1086.

Aggrey-Fynn JE, et al. (2026) Epigenetic context defines the transcriptional activity of canonical and noncanonical NF- κ B signaling in pancreatic cancer. *Cell death discovery*, 12(1).

Quaas M, et al. (2026) BRCA1 and BRCA2 gene expression: p53- and cell cycle-dependent repression requires RB and DREAM. *Cell death and differentiation*, 33(1), 51.

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

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.

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

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.

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

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

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.

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

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