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 resource, software application, data processing software, image processing software

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

Funding:

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: 20250517T060225+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 203 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

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

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.

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.

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.

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.

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.

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

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

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.

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.

Tan Y, et al. (2023) Signal-induced enhancer activation requires Ku70 to read topoisomerase1-DNA covalent complexes. Nature structural & molecular biology, 30(2), 148.

Muckenhuber M, et al. (2023) Epigenetic signals that direct cell type-specific interferon beta response in mouse cells. Life science alliance, 6(4).

Hughes AL, et al. (2023) A CpG island-encoded mechanism protects genes from premature transcription termination. Nature communications, 14(1), 726.

Klinkenberg E, et al. (2023) Tuberculosis prevalence after 4 years of population-wide systematic TB symptom screening and universal testing and treatment for HIV in the HPTN 071 (PopART) community-randomised trial in Zambia and South Africa: A cross-sectional survey (TREATS). PLoS medicine, 20(9), e1004278.

Niida Y, et al. (2023) Streamlining Genetic Diagnosis With Long-Range Polymerase Chain Reaction (PCR)-Based Next-Generation Sequencing for Type I and Type II Collagenopathies. Cureus, 15(12), e50482.

Keck MK, et al. (2023) Amplification of the PLAG-family genes-PLAGL1 and PLAGL2-is a key feature of the novel tumor type CNS embryonal tumor with PLAGL amplification. Acta neuropathologica, 145(1), 49.

Shanaube K, et al. (2023) The impact of a combined TB/HIV intervention on the incidence of TB infection among adolescents and young adults in the HPTN 071 (PopART) trial communities in Zambia and South Africa. PLOS global public health, 3(7), e0001473.