Resource Summary Report

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JCB DataViewer

RRID:SCR_002633
Type: Tool

Proper Citation

JCB DataViewer (RRID:SCR_002633)

Resource Information

URL: http://jcb-dataviewer.rupress.org/

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Description: A web-based, multi-dimensional image data-viewing application for original microscopy image datasets associated with articles published in The Journal of Cell Biology, a peer-reviewed journal published by The Rockefeller University Press. The JCB DataViewer can host multidimensional fluorescence microscopy images, 3D tomogram data, very large (gigapixel) images, and high content imaging screens. Images are presented in an interactive viewer, and the scores from high content screens are presented in interactive graphs with data points linked to the relevant images. The JCB DataViewer uses the Bio-Formats library to read over 120 different imaging file formats and convert them to the OME-TIFF image data standard. Image data are archived by the Journal and may be freely accessed by readers using the JCB DataViewer. Download of author-provided image data and associated metadata in OME-TIFF format is also possible with author permission, allowing for independent analysis of image data irrespective of acquisition or viewing software. Although the JCB DataViewer is designed to host and facilitate sharing and analysis of original microscopy image data, authors may also upload other types of original image data as supplements to their manuscripts, including histology and electron micrographs and digital scans of gels or blots.

Abbreviations: JCB DataViewer

Resource Type: database, data repository, data or information resource, image repository, storage service resource, service resource

Defining Citation: PMID:22869591

Keywords: microscopy, standardization, data sharing, archiving, data management,

metadata standard, visualization, analysis, image collection, histology, electron micrograph, digital scan, gel, blot

Funding: Glencoe Software ;
OME - Open Microscopy Environment

Resource Name: JCB DataViewer

Resource ID: SCR_002633

Alternate IDs: nlx_156057

Record Creation Time: 20220129T080214+0000

Record Last Update: 20250417T065114+0000

Ratings and Alerts

No rating or validation information has been found for JCB DataViewer.

No alerts have been found for JCB DataViewer.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Hwang YH, et al. (2018) Anti-Osteoporotic Effects of Polysaccharides Isolated from Persimmon Leaves via Osteoclastogenesis Inhibition. Nutrients, 10(7).

Zaritsky A, et al. (2018) Sharing and reusing cell image data. Molecular biology of the cell, 29(11), 1274.

Amoroso-Silva P, et al. (2018) Analysis of mandibular second molars with fused roots and shallow radicular grooves by using micro-computed tomography. Journal of conservative dentistry : JCD, 21(2), 169.

Li S, et al. (2016) Metadata management for high content screening in OMERO. Methods (San Diego, Calif.), 96, 27.

Smith B, et al. (2015) Biomedical imaging ontologies: A survey and proposal for future work. Journal of pathology informatics, 6, 37.

Patwardhan A, et al. (2014) A 3D cellular context for the macromolecular world. Nature structural & molecular biology, 21(10), 841.

Kim HJ, et al. (2013) Inhibition of endoplasmic reticulum stress alleviates lipopolysaccharide-induced lung inflammation through modulation of NF-?B/HIF-1? signaling pathway. Scientific reports, 3, 1142.

Lagerstedt I, et al. (2013) Web-based visualisation and analysis of 3D electron-microscopy data from EMDB and PDB. Journal of structural biology, 184(2), 173.

Henderson JM, et al. (2013) Co-registration of eye movements and event-related potentials in connected-text paragraph reading. Frontiers in systems neuroscience, 7, 28.

Shamir L, et al. (2010) Pattern recognition software and techniques for biological image analysis. PLoS computational biology, 6(11), e1000974.

Buttitta LA, et al. (2010) A robust cell cycle control mechanism limits E2F-induced proliferation of terminally differentiated cells in vivo. The Journal of cell biology, 189(6), 981.