Resource Summary Report

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SerialEM

RRID:SCR_017293
Type: Tool

Proper Citation

SerialEM (RRID:SCR_017293)

Resource Information

URL: http://bio3d.colorado.edu/SerialEM/

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Description: Software tool for automated EM data acquisition. Used for efficient tilt series acquisition and interface for image capture, display, and storage and for control of some aspects of microscope function.

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

Defining Citation: PMID:16182563

Keywords: automated, data, acquisition, tilt, image, capture, display, storage, microscope

Funding Agency: NCRR , NIGMS

Availability: Restricted

Resource Name: SerialEM

Resource ID: SCR_017293

Ratings and Alerts

No rating or validation information has been found for SerialEM.

No alerts have been found for SerialEM.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 157 mentions in open access literature.

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

Klawa SJ, et al. (2024) Uncovering supramolecular chirality codes for the design of tunable biomaterials. Nature communications, 15(1), 788.

Uckeley ZM, et al. (2024) Glucosylceramide in bunyavirus particles is essential for virus binding to host cells. Cellular and molecular life sciences : CMLS, 81(1), 71.

Nishio S, et al. (2024) ZP2 cleavage blocks polyspermy by modulating the architecture of the egg coat. Cell, 187(6), 1440.

Diep DTV, et al. (2024) A metabolically controlled contact site between vacuoles and lipid droplets in yeast. Developmental cell, 59(6), 740.

Liu H, et al. (2023) Structural insights into anion selectivity and activation mechanism of LRRC8 volume-regulated anion channels. Cell reports, 42(8), 112926.

Abhiraman GC, et al. (2023) A structural blueprint for interleukin-21 signal modulation. Cell reports, 42(6), 112657.

Li Z, et al. (2023) Cryo-Electron Tomography of Toxoplasma gondii Indicates That the Conoid Fiber May Be Derived from Microtubules. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 10(14), e2206595.

Maldonado M, et al. (2023) Plant-specific features of respiratory supercomplex I?+?III2 from Vigna radiata. Nature plants, 9(1), 157.

Du S, et al. (2023) Cryo-EM structure of severe fever with thrombocytopenia syndrome virus. Nature communications, 14(1), 6333.

Wang W, et al. (2023) A protocol for capturing RNA-sensing innate immune receptors in multiple conformations by single-particle cryo-EM. STAR protocols, 4(2), 102166.

Mauxion F, et al. (2023) The human CNOT1-CNOT10-CNOT11 complex forms a structural platform for protein-protein interactions. Cell reports, 42(1), 111902.

Cong J, et al. (2023) Structure of the Newcastle Disease Virus L protein in complex with tetrameric phosphoprotein. Nature communications, 14(1), 1324.

Saha I, et al. (2023) The AAA+ chaperone VCP disaggregates Tau fibrils and generates

aggregate seeds in a cellular system. Nature communications, 14(1), 560.

De Gieter S, et al. (2023) Sterol derivative binding to the orthosteric site causes conformational changes in an invertebrate Cys-loop receptor. eLife, 12.

Keidel A, et al. (2023) Concerted structural rearrangements enable RNA channeling into the cytoplasmic Ski238-Ski7-exosome assembly. Molecular cell, 83(22), 4093.

Wang X, et al. (2023) Membrane remodeling properties of the Parkinson's disease protein LRRK2. Proceedings of the National Academy of Sciences of the United States of America, 120(43), e2309698120.

Louro JA, et al. (2023) Nucleosome dyad determines the H1 C-terminus collapse on distinct DNA arms. Structure (London, England : 1993), 31(2), 201.

Yu X, et al. (2023) The evolution and determinants of neutralization of potent head-binding antibodies against Ebola virus. Cell reports, 42(11), 113366.

Chen EC, et al. (2023) Systematic analysis of human antibody response to ebolavirus glycoprotein shows high prevalence of neutralizing public clonotypes. Cell reports, 42(4), 112370.

Tan ZY, et al. (2023) Heterogeneous non-canonical nucleosomes predominate in yeast cells in situ. eLife, 12.