

Resource Summary Report

Generated by [kravitz2](#) on Sep 5, 2026

University of California; San Diego;National Center for Microscopy and Imaging Research - NCMIR

RRID:SCR_016627

Type: Tool

Proper Citation

University of California; San Diego;National Center for Microscopy and Imaging Research - NCMIR (RRID:SCR_016627)

Resource Information

URL: <https://ncmir.ucsd.edu/about>

Proper Citation: University of California; San Diego;National Center for Microscopy and Imaging Research - NCMIR (RRID:SCR_016627)

Description: Biomedical Technology Research Center to develop methods and analytical approaches to 3D microscopy. Applicable to neurobiology and cell biology, incorporating equipment and implementing software that expand the analysis of 3D structure.

Abbreviations: ncmir, NCMIR

Synonyms: national center for microscopy and imaging research, National Center for Microscopy and Imaging Research

Resource Type: access service resource, service resource, core facility

Keywords: method, analytical, 3D microscopy, imaging, neurobiology, cell biology, structure

Funding: NIGMS ;
NIH

Resource Name: University of California; San Diego;National Center for Microscopy and Imaging Research - NCMIR

Resource ID: SCR_016627

Record Creation Time: 20220129T080331+0000

Record Last Update: 20260904T000816+0000

Ratings and Alerts

No rating or validation information has been found for University of California; San Diego;National Center for Microscopy and Imaging Research - NCMIR.

No alerts have been found for University of California; San Diego;National Center for Microscopy and Imaging Research - NCMIR.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 207 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Cheng H, et al. (2024) Enhanced mitochondrial buffering prevents Ca²⁺ overload in naked mole-rat brain. *The Journal of physiology*, 602(21), 5685.

Bouin A, et al. (2024) New rabies viral resources for multi-scale neural circuit mapping. *Molecular psychiatry*, 29(7), 1951.

Spirou GA, et al. (2023) High-resolution volumetric imaging constrains compartmental models to explore synaptic integration and temporal processing by cochlear nucleus globular bushy cells. *eLife*, 12.

Adams SR, et al. (2023) Fe-TAMLs as a new class of small molecule peroxidase probes for correlated light and electron microscopy. *bioRxiv : the preprint server for biology*.

Farina S, et al. (2023) Mechanistic multiscale modelling of energy metabolism in human astrocytes reveals the impact of morphology changes in Alzheimer's Disease. *PLoS computational biology*, 19(9), e1011464.

Jeong Y, et al. (2023) Glaucoma-associated Optineurin mutations increase transmitophagy in a vertebrate optic nerve. *bioRxiv : the preprint server for biology*.

Lev-Ram V, et al. (2023) Do perineuronal nets stabilize the engram of a synaptic circuit? *bioRxiv : the preprint server for biology*.

Lewis TR, et al. (2023) Photoreceptor disc incisures form as an adaptive mechanism ensuring the completion of disc enclosure. *bioRxiv : the preprint server for biology*.

Marks de Chabris NC, et al. (2023) Short communication: Acute hypoxia does not alter mitochondrial abundance in naked mole-rats. *Comparative biochemistry and physiology. Part A, Molecular & integrative physiology*, 276, 111343.

Torten G, et al. (2023) Three-Dimensional Ultrastructure of the Normal Rod Photoreceptor Synapse and Degenerative Changes Induced by Retinal Detachment. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(30), 5468.

Lewis TR, et al. (2023) Photoreceptor disc incisures form as an adaptive mechanism ensuring the completion of disc enclosure. *eLife*, 12.

Calligaro H, et al. (2023) Ultrastructure of Synaptic Connectivity within Subregions of the Suprachiasmatic Nucleus Revealed by a Genetically Encoded Tag and Serial Blockface Electron Microscopy. *eNeuro*, 10(8).

Kim S, et al. (2023) TorsinA is essential for the timing and localization of neuronal nuclear pore complex biogenesis. *bioRxiv : the preprint server for biology*.

Dos Santos C, et al. (2023) Caloric restriction promotes beta cell longevity and delays aging and senescence by enhancing cell identity and homeostasis mechanisms. *Research square*.

Fang J, et al. (2023) Spatial and functional arrangement of Ebola virus polymerase inside phase-separated viral factories. *Nature communications*, 14(1), 4159.

Dos Santos C, et al. (2023) Caloric restriction promotes beta cell longevity and delays aging and senescence by enhancing cell identity and homeostasis mechanisms. *bioRxiv : the preprint server for biology*.

Venkatraman K, et al. (2023) Cristae formation is a mechanical buckling event controlled by the inner membrane lipidome. *bioRxiv : the preprint server for biology*.

Han M, et al. (2023) Spatial mapping of mitochondrial networks and bioenergetics in lung cancer. *Nature*, 615(7953), 712.

Castillon GA, et al. (2023) Proximal Molecular Probe Transfer (PROMPT), a new approach for identifying sites of protein/nucleic acid interaction in cells by correlated light and electron microscopy. *bioRxiv : the preprint server for biology*.

Venkatraman K, et al. (2023) Cristae formation is a mechanical buckling event??controlled by the inner mitochondrial membrane lipidome. *The EMBO journal*, 42(24), e114054.