

Resource Summary Report

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National Center for X-ray Tomography

RRID:SCR_001433

Type: Tool

Proper Citation

National Center for X-ray Tomography (RRID:SCR_001433)

Resource Information

URL: <https://ncxt.org/>

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Description: Biomedical technology research center that develops novel cellular imaging technologies, specifically soft X-ray tomography, for visualizing and quantifying the internal structure of whole, hydrated cells, and high-numerical aperture fluorescence microscopy for locating the position of specific cellular molecules. Data from these two imaging modalities can be combined to form a single, correlated imaging view of a cell.

Abbreviations: NCXT

Synonyms: National Center for X-ray Tomography: Cellular imaging at the mesoscale

Resource Type: biomedical technology research center, training resource

Keywords: x-ray tomography, cell, imaging, microscopy, x-ray, tomography, imaging technology center

Funding: NIGMS ;
DOE

Availability: Free, Freely Available

Resource Name: National Center for X-ray Tomography

Resource ID: SCR_001433

Alternate IDs: nlx_152657

Alternate URLs: <http://ncxt.lbl.gov/>

Record Creation Time: 20220129T080207+0000

Record Last Update: 20260805T044023+0000

Ratings and Alerts

No rating or validation information has been found for National Center for X-ray Tomography.

No alerts have been found for National Center for X-ray Tomography.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Polo CC, et al. (2020) Three-dimensional imaging of mitochondrial cristae complexity using cryo-soft X-ray tomography. Scientific reports, 10(1), 21045.

Walters AD, et al. (2019) Nuclear envelope expansion in budding yeast is independent of cell growth and does not determine nuclear volume. Molecular biology of the cell, 30(1), 131.

Chongsiriwatana NP, et al. (2017) Intracellular biomass flocculation as a key mechanism of rapid bacterial killing by cationic, amphipathic antimicrobial peptides and peptoids. Scientific reports, 7(1), 16718.

Aho V, et al. (2017) Chromatin organization regulates viral egress dynamics. Scientific reports, 7(1), 3692.

Myllys M, et al. (2016) Herpes simplex virus 1 induces egress channels through marginalized host chromatin. Scientific reports, 6, 28844.

Chang SY, et al. (2011) Angiotensin II type II receptor deficiency accelerates the development of nephropathy in type I diabetes via oxidative stress and ACE2. Experimental diabetes research, 2011, 521076.