Resource Summary Report

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Leica: SP8 LIGHTNING confocal microscope

RRID:SCR_018169
Type: Tool

Proper Citation

Leica: SP8 LIGHTNING confocal microscope (RRID:SCR_018169)

Resource Information

URL: https://www.leica-microsystems.com/products/confocal-microscopes/p/leica-tcs-sp8/

Proper Citation: Leica: SP8 LIGHTNING confocal microscope (RRID:SCR_018169)

Description: Confocal microscope by Leica Microsystems to capture up to five true color channels simultaneously at high speed without need for trade-offs in multicolor experiments. Provides super resolution live cell imaging, simultaneous multicolor imaging, live specimen imaging thanks to fast acquisition rates, sample protection thanks to low phototoxicity.

Synonyms: Leica TCS SP8 system

Resource Type: instrument resource

Keywords: Leica Microsystems, five color channels, live cell imaging, simultaneous multicolor imaging, live specimen imaging, low phototoxicity, instrument, equipment

Specification URL: https://raw.githubusercontent.com/SciCrunch/RRID-Instruments/refs/heads/main/PDF/SCR_027227.pdf

Resource Name: Leica: SP8 LIGHTNING confocal microscope

Resource ID: SCR_018169

Alternate IDs: Model_Number_TCS_SP8

Alternate URLs: https://www.leica-microsystems.com/products/confocal-microscopes/p/leica-tcs-sp8/downloads/

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Ratings and Alerts

No rating or validation information has been found for Leica: SP8 LIGHTNING confocal microscope.

No alerts have been found for Leica: SP8 LIGHTNING confocal microscope.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 49 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Liao X, et al. (2025) Myosin-dependent short actin filaments contribute to peripheral widening in developing stereocilia. Nature communications, 16(1), 5835.

Wang X, et al. (2025) The Tacrine-Induced Endoplasmic Reticulum Stress in AChE-Expressed Cells Leads to Improper Assembly and Transport of the Oligomeric Enzyme: Reversal by Trehalose. Journal of neurochemistry, 169(8), e70178.

Martinez-Lozada Z, et al. (2025) Identification of a Subpopulation of Astrocyte Progenitor Cells in the Neonatal Subventricular Zone: Evidence that Migration is Regulated by Glutamate Signaling. Neurochemical research, 50(1), 77.

Nayak PK, et al. (2025) Transcriptome profiling of tendon fibroblasts at the onset of embryonic muscle contraction reveals novel force-responsive genes. eLife, 14.

Klemm N, et al. (2025) The Prolonged Half-Life of the p53 Missense Variant R248Q Promotes Accumulation and Heterotetramer Formation with Wild-Type p53 to Exert the Dominant-Negative Effect. Cancer research, 85(11), 1978.

Mu H, et al. (2025) Methionine intervention induces PD-L1 expression to enhance the immune checkpoint therapy response in MTAP-deleted osteosarcoma. Cell reports. Medicine, 6(3), 101977.

Heller DT, et al. (2025) Pre-Sensory Spontaneous Activity Accelerates Coordinated Maturation of Synaptic Partners and Drives Transition to the Mature Physiological Phenotype. bioRxiv : the preprint server for biology.

Luo B, et al. (2025) Resveratrol amplifies the anti-tumor effect of ?-PD-1 by altering the intestinal microbiome and PGD2 content. Gut microbes, 17(1), 2447821.

Fu X, et al. (2025) FOXP1 is a Transcription Factor for the Alzheimer's Disease Risk Gene SORL1. Journal of neurochemistry, 169(2), e70011.

Zhang Y, et al. (2025) Deprivation of EGFR signal causes senolysis in PDAC with CDK4/6 inhibition. Cell death and differentiation.

Snitow ME, et al. (2025) Stc1-expressing myofibroblasts are a developmentally distinct lineage cleared through apoptosis in the neonatal lung. Cell reports, 45(1), 116750.

Villanueva CB, et al. (2025) Human glial progenitors transplanted into Huntington disease mice normalize neuronal gene expression, dendritic structure, and behavior. Cell reports, 44(6), 115762.

Aragon JW, et al. (2025) Emergence of endothelial subtypes and role of cell cycle control in arterial-venous specification during embryonic vascular development. Cell reports, 44(10), 116368.

Cano JC, et al. (2025) Newly generated striatal neurons rescue motor circuitry in a Huntington's disease mouse model. Cell reports, 44(4), 115440.

Waldhaus J, et al. (2024) Mapping the developmental potential of mouse inner ear organoids at single-cell resolution. iScience, 27(3), 109069.

Liao X, et al. (2024) Myosin-dependent short actin filaments contribute to peripheral widening in developing stereocilia. Research square.

Lee DY, et al. (2024) Dual effects of TGF-? inhibitor in ALS - inhibit contracture and neurodegeneration. Journal of neurochemistry.

Domènech-Eres R, et al. (2024) A GFP-expressing minigenome of a chrysovirus replicating in fungi. Virology, 591, 109987.

Mitias S, et al. (2024) ProSAAS is preferentially up-regulated during homeostatic scaling and reduces amyloid plaque burden in the 5xFAD mouse hippocampus. Journal of neurochemistry, 168(9), 3235.

Wang S, et al. (2024) 3D reconstruction of the mouse cochlea from scRNA-seq data suggests morphogen-based principles in apex-to-base specification. Developmental cell, 59(12), 1538.