

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 [RRID](#) .

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

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.

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.

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 γ -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.

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

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

Lee DY, et al. (2024) Dual effects of TGF- β 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.