

# Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 17, 2026

## 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](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/>

**Record Creation Time:** 20220129T080339+0000

**Record Last Update:** 20260912T195858+0000

### 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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 62 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

Chehade HD, et al. (2026) Emergence of Task-Related Motor Cortical Dysfunction in Mice with Progressive Parkinsonism. bioRxiv : the preprint server for biology.

Miyamoto T, et al. (2026) Chemotherapy induces an IL1?-dependent neutrophil recruitment and activation that promote chemoresistance in metastatic ovarian cancer. Journal for immunotherapy of cancer, 14(6).

Raguin J, et al. (2026) Human cerebral organoids with microglia and vasculature model glioma stem cell interactions and radiotherapy response. Cell reports methods, 6(6), 101425.

Li C, et al. (2026) ARID1A deficiency unleashes centromeric RNA transcription to drive chromosomal instability and boosts PKMYT1 inhibitor efficacy via RNA sensing. bioRxiv : the preprint server for biology.

Ahammad RU, et al. (2026) Peptide-mediated delivery of an ?-synuclein-targeting antisense oligonucleotide: Pharmacokinetics, safety, and central nervous system efficacy in a synucleinopathy model. Drug metabolism and disposition: the biological fate of chemicals, 54(6), 100304.

Kafka E, et al. (2026) TCA cycle rewiring underpins histone acetylation sourcing and cell-fate transitions during exit from naive pluripotency. Cell stem cell, 33(5), 820.

Cwiek A, et al. (2026) Retinoic acid regulates fetoplacental vascularization via notch signaling and a SEMA3E/F-PLEXIND1 axis. iScience, 29(4), 115205.

Xu QJ, et al. (2026) The intrinsic cardiac nervous system is essential for cardiac function and survival. Cell.

Solanki HS, et al. (2026) RAS-GTP Inhibition Overcomes Acquired Resistance to KRASG12C Inhibitors Mediated by Oncogenic and Wild-Type RAS Activation in Non-Small Cell Lung Cancer. Cancer research, 86(2), 467.

Tuohuti A, et al. (2026) MTHFD2-Mediated Ubiquitination and Degradation of FOXO1 Promote Tongue Squamous Cell Carcinoma Progression. Molecular cancer research :

MCR, 24(4), 270.

Sun W, et al. (2026) Reconstruction of T cell infiltration in an osteosarcoma PDX-organoid interactive biobank for personalized immunotherapy. *Cell reports. Medicine*, 7(3), 102644.

Zhang K, et al. (2026) Zinc Finger Protein 143 Promotes Endometriotic Lesion Growth and Fibrosis through the Plasminogen Activator Inhibitor-1 Pathway. *The American journal of pathology*.

Kwon H, et al. (2026) Glycerol 3-phosphate activates lipid metabolism through GATOR2-dependent regulation of mTORC1. *Science signaling*, 19(946), eaeb7989.

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

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.

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

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.

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

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.