Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 20, 2025

Leica TCS SP5 Broadband Confocal Laser Scanning Microscope

RRID:SCR_020233 Type: Tool

Proper Citation

Leica TCS SP5 Broadband Confocal Laser Scanning Microscope (RRID:SCR_020233)

Resource Information

URL: https://www.leica-microsystems.com/products/confocal-microscopes/p/leica-tcs-sp5/

Proper Citation: Leica TCS SP5 Broadband Confocal Laser Scanning Microscope (RRID:SCR_020233)

Description: Leica TCS SP5 is a broadband confocal microscope that provides the full range of scan speeds at the a high resolution. With its SP detection (five channels simultaneously) and optional AOBS (Acousto Optical Bream Splitter), the Leica TCS SP5 delivers bright, noise-free images with minimal photo damage at high speed. The system is also the platform for the new Leica DM6000 CFS (Confocal Fixed Stage) for physiological and electrophysiological experiments and for the new super resolution Leica TCS STED confocal microscope.

Resource Type: instrument resource

Keywords: Leica Microsystems, Leica, Confocal Laser Scanning Microscope, Broadband Confocal Laser Scanning Microscope, super-resolution confocal microscope, Instrument Equipment, USEDit

Funding:

Availability: Commercially available

Resource Name: Leica TCS SP5 Broadband Confocal Laser Scanning Microscope

Resource ID: SCR_020233

Alternate IDs: Model_Number_TCS SP5

Record Creation Time: 20220129T080349+0000

Record Last Update: 20250519T204155+0000

Ratings and Alerts

No rating or validation information has been found for Leica TCS SP5 Broadband Confocal Laser Scanning Microscope.

No alerts have been found for Leica TCS SP5 Broadband Confocal Laser Scanning Microscope.

Data and Source Information

Source: <u>SciCrunch Registry</u>

Usage and Citation Metrics

We found 12 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Ramponi V, et al. (2025) H4K20me3-Mediated Repression of Inflammatory Genes Is a Characteristic and Targetable Vulnerability of Persister Cancer Cells. Cancer research, 85(1), 32.

Jiao M, et al. (2024) Targeting Catechol-O-Methyltransferase Induces Mitochondrial Dysfunction and Enhances the Efficacy of Radiotherapy in Glioma. Cancer research, 84(21), 3640.

Jacob J, et al. (2024) Antibody-Drug Conjugates Targeting the EGFR Ligand Epiregulin Elicit Robust Anti-Tumor Activity in Colorectal Cancer. bioRxiv : the preprint server for biology.

Gupta A, et al. (2024) EGFR-directed antibodies promote HER2 ADC internalization and efficacy. Cell reports. Medicine, 5(11), 101792.

Northey JJ, et al. (2024) Mechanosensitive hormone signaling promotes mammary progenitor expansion and breast cancer risk. Cell stem cell, 31(1), 106.

Suárez-Delgado E, et al. (2023) Activation-pathway transitions in human voltage-gated proton channels revealed by a non-canonical fluorescent amino acid. eLife, 12.

Molnár K, et al. (2022) Motoneuronal inflammasome activation triggers excessive neuroinflammation and impedes regeneration after sciatic nerve injury. Journal of

neuroinflammation, 19(1), 68.

Cui H, et al. (2022) Protocol to image and quantify nucleocytoplasmic transport in cultured cells using fluorescent in situ hybridization and a dual reporter system. STAR protocols, 3(4), 101813.

Kim Y, et al. (2021) Adenine base editing and prime editing of chemically derived hepatic progenitors rescue genetic liver disease. Cell stem cell, 28(9), 1614.

Kim Y, et al. (2021) Generation and differentiation of chemically derived hepatic progenitors from mouse primary hepatocytes. STAR protocols, 2(4), 100840.

Wei H, et al. (2021) Systematic analysis of purified astrocytes after SCI unveils Zeb2os function during astrogliosis. Cell reports, 34(5), 108721.

Beekhof GC, et al. (2021) Differential spatiotemporal development of Purkinje cell populations and cerebellum-dependent sensorimotor behaviors. eLife, 10.