

Resource Summary Report

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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

Availability: Commercially available

Specification URL: https://raw.githubusercontent.com/SciCrunch/RRID-Instruments/main/PDF/SCR_020233.pdf

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: 20260905T132911+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: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

D'Andrea G, et al. (2026) Hydroxytyrosol Mitigates Anxiety-Like Behaviors After a Traumatic Experience in Aged Mice in Parallel With Increased Neurogenesis in the Ventral and Dorsal Dentate Gyrus, and Preservation of Gut Microbiota Composition. *Journal of neurochemistry*, 170(5), e70448.

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.

Tisi A, et al. (2025) Alterations of endocannabinoid signaling and microglia reactivity in the retinas of AD-like mice precede the onset of hippocampal β -amyloid plaques. *Journal of neurochemistry*, 169(2), e16256.

High PC, et al. (2025) Cetuximab increases LGR5 expression and augments LGR5-targeting antibody-drug conjugate efficacy in patient-derived colorectal cancer models. *bioRxiv : the preprint server for biology*.

Jacob J, et al. (2025) Antibody-Drug Conjugates Targeting the EGFR Ligand Epiregulin Elicit Robust Antitumor Activity in Colorectal Cancer. *Cancer research*, 85(5), 973.

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.

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

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*.

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.

Izraely S, et al. (2023) The Vicious Cycle of Melanoma-Microglia Crosstalk: Inter-Melanoma Variations in the Brain-Metastasis-Promoting IL-6/JAK/STAT3 Signaling Pathway. *Cells*, 12(11).

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.

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

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.

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