

Resource Summary Report

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Leica: TCS SP2 Confocal Laser Scanning Microscope

RRID:SCR_020231

Type: Tool

Proper Citation

Leica: TCS SP2 Confocal Laser Scanning Microscope (RRID:SCR_020231)

Resource Information

URL: https://digital.bsd.uchicago.edu/equipment_files/Leica%20SP2%20manual.pdf

Proper Citation: Leica: TCS SP2 Confocal Laser Scanning Microscope (RRID:SCR_020231)

Description: Leica TCS SP2 is a spectral confocal laser scanning microscope with 405 UV laser 3CHDIC digital emission 400-800nm range designed to acquire high spatial resolution images of fluorescently labeled materials and for analysis of these images. The confocal principle utilizes a pinhole (confocal aperture) to eliminate out-of-focus light from fluorescently labeled specimens (i.e., provide "optical sectioning"). Lasers provide intense, point illumination that is scanned over the preparation and the fluorescence at each point is quantified and used to construct a representation of the object brightness (an image). This method provides high resolution for the x and y planes as well as vertically (z plane). The SP2 is an advanced confocal system with nine laser excitation lines spanning the spectrum from UV to near IR. The following laser lines are available: 405nm, 458, 476, 488, 496, 514, 543, 594, and 633, all fiber coupled and controlled by AOTFs.

Resource Type: instrument resource

Keywords: Leica, Confocal Microscope, Instrument Equipment, USEdit

Availability: Commercially available

Specification URL: https://raw.githubusercontent.com/SciCrunch/RRID-Instruments/main/PDF/SCR_020231.pdf

Resource Name: Leica: TCS SP2 Confocal Laser Scanning Microscope

Resource ID: SCR_020231

Alternate IDs: Model_Number_TCS SP2 AOBS

Record Creation Time: 20220129T080349+0000

Record Last Update: 20260801T190653+0000

Ratings and Alerts

No rating or validation information has been found for Leica: TCS SP2 Confocal Laser Scanning Microscope.

No alerts have been found for Leica: TCS SP2 Confocal Laser Scanning Microscope.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Kozłowska K, et al. (2025) Application of Human Epineural Patch (hEP) as a Novel Strategy for Nerve Protection and Enhancement of Regeneration After Nerve Crush Injury. Biomedicines, 13(7).

Siemionow M, et al. (2023) Human Multi-Chimeric Cell (HMCC) Therapy as a Novel Approach for Tolerance Induction in Transplantation. Stem cell reviews and reports, 19(8), 2741.

Boone K, et al. (2023) Designing Collagen-Binding Peptide with Enhanced Properties Using Hydropathic Free Energy Predictions. Applied sciences (Basel, Switzerland), 13(5).

Cortés-Gómez MÁ, et al. (2023) Presenilin 1 Modulates Acetylcholinesterase Trafficking and Maturation. International journal of molecular sciences, 24(2).