

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://www.fdi-lab.org/) on Apr 23, 2025

Leica TCS SPE

RRID:SCR_002140

Type: Tool

Proper Citation

Leica TCS SPE (RRID:SCR_002140)

Resource Information

URL: <https://www.leica-microsystems.com/products/confocal-microscopes/p/leica-tcs-spe/>

Proper Citation: Leica TCS SPE (RRID:SCR_002140)

Description: High resolution, compact and robust confocal that enables immunohistochemical colocalization analysis of florescent markers. Leica TCS SPE confocal point-scanning, spectral system for fluorescence imaging of live or fixed cells.

Abbreviations: TCS SPE

Synonyms: Leica TCS SPE confocal microscope

Resource Type: instrument resource

Keywords: confocal microscope, imaging, instrument, equipment, hardware

Funding:

Availability: Commercial license

Resource Name: Leica TCS SPE

Resource ID: SCR_002140

Alternate IDs: SciRes_000154

Old URLs: http://www.leica-microsystems.com/fileadmin/downloads/Leica%20TCS%20SPE/Brochures/Leica%20TCS%20SPE-Brochure_EN.pdf

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Ratings and Alerts

No rating or validation information has been found for Leica TCS SPE.

No alerts have been found for Leica TCS SPE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 31 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Foucault L, et al. (2024) Neonatal brain injury unravels transcriptional and signaling changes underlying the reactivation of cortical progenitors. *Cell reports*, 43(2), 113734.

Yan W, et al. (2023) Subtype-Specific Roles of Ellipsoid Body Ring Neurons in Sleep Regulation in *Drosophila*. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(5), 764.

Tan X, et al. (2023) Iron overload facilitates neonatal hypoxic-ischemic brain damage via SLC7A11-mediated ferroptosis. *Journal of neuroscience research*, 101(7), 1107.

Nukala KM, et al. (2023) Downregulation of oxidative stress-mediated glial innate immune response suppresses seizures in a fly epilepsy model. *Cell reports*, 42(1), 112004.

Sánchez-Temprano A, et al. (2022) Concurrent Akt, ERK1/2 and AMPK Activation by Obestatin Inhibits Apoptotic Signaling Cascades on Nutrient-Deprived PC12 Cells. *Cellular and molecular neurobiology*, 42(5), 1607.

Perez-Rando M, et al. (2022) Estradiol Regulates Polysialylated Form of the Neural Cell Adhesion Molecule Expression and Connectivity of O-LM Interneurons in the Hippocampus of Adult Female Mice. *Neuroendocrinology*, 112(1), 51.

Chen N, et al. (2022) Local translation provides the asymmetric distribution of CaMKII required for associative memory formation. *Current biology : CB*, 32(12), 2730.

Hobin M, et al. (2022) The Drosophila microRNA bantam regulates excitability in adult mushroom body output neurons to promote early night sleep. *iScience*, 25(9), 104874.

Yildirim F, et al. (2021) Shared and oppositely regulated transcriptomic signatures in Huntington's disease and brain ischemia confirm known and unveil novel potential neuroprotective genes. *Neurobiology of aging*, 104, 122.e1.

Messerschmidt C, et al. (2021) PHACTR1 genetic variability is not critical in small vessel ischemic disease patients and PcomA recruitment in C57BL/6J mice. *Scientific reports*, 11(1), 6072.

Lentini C, et al. (2021) Reprogramming reactive glia into interneurons reduces chronic seizure activity in a mouse model of mesial temporal lobe epilepsy. *Cell stem cell*, 28(12), 2104.

Pohlkamp T, et al. (2021) NHE6 depletion corrects ApoE4-mediated synaptic impairments and reduces amyloid plaque load. *eLife*, 10.

Leiwe MN, et al. (2021) Post hoc Correction of Chromatic Aberrations in Large-Scale Volumetric Images in Confocal Microscopy. *Frontiers in neuroanatomy*, 15, 760063.

Kerr BA, et al. (2021) Kindlin-3 mutation in mesenchymal stem cells results in enhanced chondrogenesis. *Experimental cell research*, 399(2), 112456.

Rivera P, et al. (2021) Sex-specific behavioral and neurogenic responses to cocaine in mice lacking and blocking dopamine D1 or dopamine D2 receptors. *The Journal of comparative neurology*, 529(8), 1724.

Huehnchen P, et al. (2020) Blockade of IL-6 signaling prevents paclitaxel-induced neuropathy in C57Bl/6 mice. *Cell death & disease*, 11(1), 45.

Nolet FE, et al. (2020) Nuclei determine the spatial origin of mitotic waves. *eLife*, 9.

Jiang D, et al. (2020) Bioenergetic Crosstalk between Mesenchymal Stem Cells and various Ocular Cells through the intercellular trafficking of Mitochondria. *Theranostics*, 10(16), 7260.

Foddis M, et al. (2020) An exploratory investigation of brain collateral circulation plasticity after cerebral ischemia in two experimental C57BL/6 mouse models. *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*, 40(2), 276.

Blumenau S, et al. (2020) Investigating APOE, APP-A? metabolism genes and Alzheimer's disease GWAS hits in brain small vessel ischemic disease. *Scientific reports*, 10(1), 7103.