

Resource Summary Report

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Olympus: FluoView 300 Confocal Microscope

RRID:SCR_020339

Type: Tool

Proper Citation

Olympus: FluoView 300 Confocal Microscope (RRID:SCR_020339)

Resource Information

URL: <http://www.olympusconfocal.com/products/fv300/index.html>

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Description: Confocal microscopy can improve conventional fluorescence images by recording fluorescence generated from the focal plane within the sample, while rejecting all other light coming from above or below the focal plane. The efficient point-scan/pinhole-detection confocal optics of the FluoView systems virtually eliminate out of focus light to produce high-contrast images with superb resolution. The FluoView systems are fully integrated workstations that incorporate user-friendly image acquisition and image analysis software with high-resolution confocal optics that require no user alignment. An , Windows-based graphic user interface allows new users to quickly generate images in various scan modes, such as XY, XZ, XT, XYZ, XYT, and XYZT. Standard image formats, including TIFF and AVI, permit easy, direct export of FluoView images to off-line analysis packages. XY scanning is performed with a pair of galvanometric mirrors, yielding a wide scanning range to cover up to a field number of 20. The optical zoom (up to 10x magnification) can be performed by narrowing the scanning range while maintaining the maximum pixel resolution of up to 2048 x 2048 pixels.

Resource Type: instrument resource

Keywords: Olympus, Confocal Microscope, Instrument Equipment, USEDit

Availability: Commercially available

Resource Name: Olympus: FluoView 300 Confocal Microscope

Resource ID: SCR_020339

Alternate IDs: SCR_020345, Model_Number_FV300

Old URLs:

https://www.olympusamerica.com/cpg_section/cpg_archived_product_details.asp?id=133&fl=2

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Record Last Update: 20260808T190151+0000

Ratings and Alerts

No rating or validation information has been found for Olympus: FluoView 300 Confocal Microscope.

No alerts have been found for Olympus: FluoView 300 Confocal Microscope.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 466 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Wang K, et al. (2025) Exploring the Role of Ccn3 in Type III Cell of Mice Taste Buds. Journal of neurochemistry, 169(1), e16291.

Ashton JL, et al. (2025) Electrophysiology and 3D-imaging reveal properties of human intracardiac neurons and increased excitability with atrial fibrillation. The Journal of physiology, 603(7), 1923.

Bose M, et al. (2025) LHX2 regulates dendritic morphogenesis in layer II/III neurons of the neocortex. Science advances, 11(27), eado1384.

Wang J, et al. (2025) PIEZO1-mediated calcium signaling reinforces mechanical properties of hair follicle stem cells to promote quiescence. Science advances, 11(22), eadt2771.

Cho YJ, et al. (2025) Repositioning of aripiprazole, an anti-psychotic drug, to sensitize the chemotherapy of pancreatic cancer. International journal of molecular medicine, 55(1).

Bose M, et al. (2025) Dual role of FOXP1 in regulating gliogenesis in the developing neocortex via the FGF signalling pathway. eLife, 13.

Sugawara A, et al. (2025) AID-2xRBD27, an auxin-inducible degron-based Rab27 trapper that reversibly inhibits the function of Rab27A in melanocytes. Journal of cell science, 138(11).

Balachandra S, et al. (2025) Bellymount-pulsed tracking: a novel approach for real-time in vivo imaging of Drosophila abdominal tissues. G3 (Bethesda, Md.), 15(1).

Abri S, et al. (2024) Chitosan-based multifunctional oxygenating antibiotic hydrogel dressings for managing chronic infection in diabetic wounds. Biomaterials science, 12(13),

Yoshii SR, et al. (2024) Fission-independent compartmentalization of mitochondria during budding yeast cell division. *The Journal of cell biology*, 223(3).

Jo G, et al. (2024) Sulfated CXCR3 Peptide Trap Use as a Promising Therapeutic Approach for Age-Related Macular Degeneration. *Biomedicines*, 12(1).

López-Murillo C, et al. (2024) Differences in vocal brain areas and astrocytes between the house wren and the rufous-tailed hummingbird. *Frontiers in neuroanatomy*, 18, 1339308.

Pisheh L, et al. (2024) EGFR-Targeted Antibody-Drug Conjugate to Different Aminobisphosphonates: Direct and Indirect Antitumor Effects on Colorectal Carcinoma Cells. *Cancers*, 16(7).

Kakizawa S, et al. (2024) Essential role of ROS - 8-Nitro-cGMP signaling in long-term memory of motor learning and cerebellar synaptic plasticity. *Redox biology*, 70, 103053.

Wei Y, et al. (2024) Sirt6 regulates the proliferation of neural precursor cells and cortical neurogenesis in mice. *iScience*, 27(2), 108706.

Yano J, et al. (2024) Impaired neutrophil extracellular trap-forming capacity contributes to susceptibility to chronic vaginitis in a mouse model of vulvovaginal candidiasis. *Infection and immunity*, 92(3), e0035023.

Kimchi EY, et al. (2024) Reward contingency gates selective cholinergic suppression of amygdala neurons. *eLife*, 12.

Nementzik LR, et al. (2024) Distribution of ubiquilin 2 and TDP-43 aggregates throughout the CNS in UBQLN2 p.T487I-linked amyotrophic lateral sclerosis and frontotemporal dementia. *Brain pathology (Zurich, Switzerland)*, 34(3), e13230.

Tang J, et al. (2024) IL33-induced neutrophil extracellular traps (NETs) mediate a positive feedback loop for synovial inflammation and NET amplification in rheumatoid arthritis. *Experimental & molecular medicine*, 56(12), 2602.

Lee K, et al. (2024) Differential effectiveness of dietary zinc supplementation with autism-related behaviours in Shank2 knockout mice. *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*, 379(1906), 20230230.