# Resource Summary Report

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## Olympus: FluoView FV3000 Confocal Laser Scanning Microscope

RRID:SCR_017015
Type: Tool

### Proper Citation

Olympus: FluoView FV3000 Confocal Laser Scanning Microscope (RRID:SCR_017015)

### Resource Information

**URL:** https://www.olympus-global.com/news/2016/nr160405fv3000e.html

**Proper Citation:** Olympus: FluoView FV3000 Confocal Laser Scanning Microscope (RRID:SCR_017015)

**Description:** FV3000 is a laser scanning confocal microscope system that captures high-resolution, high-contrast images by scanning samples point by point, enabling precise 3D fluorescence imaging. The system supports inverted and upright configurations and accommodates various objectives with magnifications ranging from 1.25× to 100×, including oil, silicone, and dry lenses, which allows imaging of both macro and micro-scale samples. It is equipped with multiple laser lines for excitation, including 405?nm, 488?nm, 561?nm, and 640?nm, as well as additional lines in some configurations (445?nm, 514?nm, 594?nm, 630?nm), enabling the use of several fluorophores simultaneously. On the detection side, the microscope uses high-sensitivity photomultiplier tube detectors, including GaAsP PMTs and multi-alkali PMTs.

**Synonyms:** , Olympus FV3000 Confocal, Olympus FV3000 microscope, FLUOVIEW FV3000

**Resource Type:** instrument resource

**Keywords:** instrument, Olympus, confocal, laser, scanning, microscope, Fluoview, FV3000

**Availability:** Commercially available

**Specification URL:** https://raw.githubusercontent.com/SciCrunch/RRID-Instruments/refs/heads/main/PDF/SCR_017015.pdf

**Resource Name:** Olympus: FluoView FV3000 Confocal Laser Scanning Microscope

**Resource ID:** SCR_017015

**Alternate URLs:** https://www.olympus-global.com/technology/design/product/fv3000_series.html

**Old URLs:** https://www.olympus-lifescience.com/en/laser-scanning/fv3000

**Record Creation Time:** 20220129T080333+0000

**Record Last Update:** 20260725T190831+0000

## Ratings and Alerts

No rating or validation information has been found for Olympus: FluoView FV3000 Confocal Laser Scanning Microscope.

No alerts have been found for Olympus: FluoView FV3000 Confocal Laser Scanning Microscope.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 51 mentions in open access literature.

**Listed below are recent publications.** The full list is available at kravitz2 .

Ho C, et al. (2025) CXCL12 Engages Cortical Inhibitory Neurons to Enhance Dendritic Spine Plasticity and Structured Network Activity. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(24).

Tong JCL, et al. (2025) Localized GLP1 receptor pre-internalization directs pancreatic alpha cell to beta cell communication. Cell metabolism, 37(8), 1698.

Kang S, et al. (2025) Dicer is essential for proper maturation, composition, and function in the postnatal retina. iScience, 28(11), 113794.

Okechukwu CC, et al. (2025) CF10/LV overcomes acquired resistance to 5-FU/LV in colorectal cancer cells through downregulation of the c-Myc/ABCB5 axis. Cancer drug resistance (Alhambra, Calif.), 8, 35.

Tsuno T, et al. (2025) Imeglimin suppresses glucagon secretion and induces a loss of ? cell identity. Cell reports. Medicine, 6(8), 102254.

Kasakura N, et al. (2025) Role of endogenous NT-3 in neuronal activity and neurogenesis in the hippocampal dentate gyrus. Neuroscience research, 218, 104923.

Nath VR, et al. (2025) Ca2+ binding to Esyt modulates membrane contact site density in Drosophila photoreceptors. The Journal of cell biology, 224(5).

Danev N, et al. (2024) Comparative transcriptomic analysis of bovine mesenchymal stromal cells reveals tissue-source and species-specific differences. iScience, 27(2), 108886.

Higazi AA, et al. (2024) Characterization of metabolic alterations in the lean metabolically unhealthy alpha defensin transgenic mice. iScience, 27(2), 108802.

Shimogori T, et al. (2024) Molecular architecture of primate specific neural circuit formation. Research square.

Górnicki T, et al. (2024) Impact of RBMS 3 Progression on Expression of EMT Markers. Cells, 13(18).

Luo YJ, et al. (2024) Sex-specific expression of distinct serotonin receptors mediates stress vulnerability of adult hippocampal neural stem cells in mice. Cell reports, 43(5), 114140.

Scott NR, et al. (2024) Mechanosensitive nuclear uptake of chemotherapy. Science advances, 10(51), eadr5947.

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Cuozzo F, et al. (2024) LDHB contributes to the regulation of lactate levels and basal insulin secretion in human pancreatic ? cells. Cell reports, 43(4), 114047.

Irollo E, et al. (2023) The Endolysosomal Transporter DMT1 is Required for Morphine Regulation of Neuronal Ferritin Heavy Chain. Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology, 18(3), 495.

Xie X, et al. (2023) Activity-dependent labeling and manipulation of fentanyl-recruited striatal ensembles using ArcTRAP approach. STAR protocols, 4(3), 102369.

Song C, et al. (2023) Aminoprocalcitonin protects against hippocampal neuronal death via preserving oxidative phosphorylation in refractory status epilepticus. Cell death discovery, 9(1), 144.

Norland S, et al. (2023) Mapping key neuropeptides involved in the melanocortin system in Atlantic salmon (Salmo salar) brain. The Journal of comparative neurology, 531(1), 89.

Balaghi N, et al. (2023) Myosin waves and a mechanical asymmetry guide the oscillatory migration of Drosophila cardiac progenitors. Developmental cell, 58(14), 1299.