

Resource Summary Report

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MetaFluor Fluorescence Ratio Imaging Software

RRID:SCR_014294

Type: Tool

Proper Citation

MetaFluor Fluorescence Ratio Imaging Software (RRID:SCR_014294)

Resource Information

URL: <http://www.moleculardevices.com/systems/metamorph-research-imaging/metafluor-fluorescence-ratio-imaging-software>

Proper Citation: MetaFluor Fluorescence Ratio Imaging Software (RRID:SCR_014294)

Description: Software designed for single or multi-wavelength intracellular ion measurements. It provides simultaneous display of raw data, ratio image, graphs of intensities, ratios, ion concentrations, and a non-ratiometric image such as a brightfield or phase-contrast image. Two different ratiometric indicators can be imaged and measured simultaneously to provide greater insight to ion exchange and intracellular function regardless of dye loading concentrations, conditions, or emission intensities.

Resource Type: data acquisition software, data processing software, software application, software resource

Keywords: ratio imaging software, ion measurement, ion exchange, intracellular function, fluorescence

Availability: Pay for product

Resource Name: MetaFluor Fluorescence Ratio Imaging Software

Resource ID: SCR_014294

License URLs: <https://www.moleculardevices.com/terms-and-conditions>

Record Creation Time: 20220129T080319+0000

Record Last Update: 20260905T133005+0000

Ratings and Alerts

No rating or validation information has been found for MetaFluor Fluorescence Ratio Imaging Software.

No alerts have been found for MetaFluor Fluorescence Ratio Imaging Software.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 850 mentions in open access literature.

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

Martins RS, et al. (2026) Caffeine Regulates GABA Transport Homeostasis in the Adolescent Mouse Frontal Cortex via Adenosine A1 Receptor and PKC-Dependent Pathways. *Journal of neurochemistry*, 170(7), e70520.

Fatima M, et al. (2026) A specialized population of hair afferents dedicated to transmitting mechanical itch. *Neuron*.

Iyer S, et al. (2026) Neuropeptide Y and peptide YY differentially modulate bitter- and fatty acid-evoked responses in human fungiform taste bud cells. *American journal of physiology. Cell physiology*, 330(4), C991.

Castro C, et al. (2025) Long QT syndrome type 3 gain-of-function of Nav1.5 increases ventricular fibroblasts proliferation and pro-fibrotic factors. *Communications biology*, 8(1), 216.

Gregori M, et al. (2025) Lysosomal TPC2 channels disrupt Ca²⁺ entry and dopaminergic function in models of LRRK2-Parkinson's disease. *The Journal of cell biology*, 224(6).

Durin Z, et al. (2025) SLC10A7 regulates O-GalNAc glycosylation and Ca²⁺ homeostasis in the secretory pathway: insights into SLC10A7-CDG. *Cellular and molecular life sciences : CMLS*, 82(1), 40.

Yang M, et al. (2025) Real-time detection of somatostatin release from single islets reveals hypersecretion in type 2 diabetes. *Acta physiologica (Oxford, England)*, 241(2), e14268.

Nilsson CI, et al. (2025) Somatostatin triggers local cAMP and Ca²⁺ signaling in primary cilia to modulate pancreatic β -cell function. *The EMBO journal*, 44(6), 1663.

Wang Z, et al. (2025) Soluble β -Amyloid Oligomers Selectively Upregulate TRPC3 in Excitatory Neurons via Calcineurin-Coupled NFAT. *Cells*, 14(11).

Dong Y, et al. (2025) TRPV2 mediates stress resilience in mouse cardiomyocytes. *Communications biology*, 8(1), 715.

Gauron MC, et al. (2025) Protein kinase C ϵ enhances Golgi-localized signaling and is associated with Alzheimer's disease using a recessive mode of inheritance. medRxiv : the preprint server for health sciences.

Liu L, et al. (2025) Nicotinic acetylcholine receptors regulate growth hormone in pituitary somatotrophs of tigers. Communications biology, 8(1), 526.

Cook NM, et al. (2025) Autoactive CNGC15 enhances root endosymbiosis in legume and wheat. Nature, 638(8051), 752.

Lin WY, et al. (2025) Multiple cAMP/PKA complexes at the STIM1 ER/PM junction specified by E-Syt1 and E-Syt2 reciprocally gates ANO1 (TMEM16A) via Ca^{2+} . Nature communications, 16(1), 3378.

Yoshino J, et al. (2025) Drosophila epidermal cells are intrinsically mechanosensitive and modulate nociceptive behavioral outputs. eLife, 13.

Abd El Hay MY, et al. (2025) Diverging roles of TRPV1 and TRPM2 in warm-temperature detection. eLife, 13.

Rosito M, et al. (2025) Ketogenic diet induces an inflammatory reactive astrocytes phenotype reducing glioma growth. Cellular and molecular life sciences : CMLS, 82(1), 73.

Dematteis G, et al. (2025) ATM knock out alters calcium signalling and augments contraction in skeletal muscle cells differentiated from human urine-derived stem cells. Cell death discovery, 11(1), 177.

Noronha-Matos JB, et al. (2025) Differential participation of CaMKII/ROCK and NOS pathways in the cholinergic inhibitory drive operated by nicotinic $\alpha 7$ receptors in perisynaptic Schwann cells. Biochemical pharmacology, 231, 116649.

Rosito M, et al. (2024) Antibiotics treatment promotes vasculogenesis in the brain of glioma-bearing mice. Cell death & disease, 15(3), 210.