Resource Summary Report

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Stereo Investigator

RRID:SCR_002526
Type: Tool

Proper Citation

Stereo Investigator (RRID:SCR_002526)

Resource Information

URL: http://www.mbfbioscience.com/stereo-investigator

Proper Citation: Stereo Investigator (RRID:SCR_002526)

Description: Stereo Investigator system includes microscope, computer, and Stereo Investigator software. Software works with Brightfield, Multi-Channel Fluorescence, Confocal, and Structured Illumination Microscopes. System used to provide estimates of number, length, area, and volume of cells or biological structures in tissue specimen in areas of neuroscience including neurodegenerative diseases, neuropathy, memory, and behavior, pulmonary research, spinal cord research, and toxicology.

Synonyms: Stereo Investigator system

Resource Type: instrument resource, software resource

Keywords: stereology, MBF Bioscience, number, length, area, volume cells, biological structures, tissue specimen

Funding:

Availability: Commercially available

Resource Name: Stereo Investigator

Resource ID: SCR_002526

Alternate IDs: SciRes_000114, SCR_018948

Alternate URLs: http://www.nitrc.org/projects/si_stereology

Record Creation Time: 20220129T080213+0000

Record Last Update: 20250517T055537+0000

Ratings and Alerts

No rating or validation information has been found for Stereo Investigator.

No alerts have been found for Stereo Investigator.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 134 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Di Martino E, et al. (2024) Inflammatory, metabolic, and sex-dependent gene-regulatory dynamics of microglia and macrophages in neonatal hippocampus after hypoxia-ischemia. iScience, 27(4), 109346.

Elorette C, et al. (2024) The neural basis of resting-state fMRI functional connectivity in fronto-limbic circuits revealed by chemogenetic manipulation. Nature communications, 15(1), 4669.

La Vitola P, et al. (2024) Mitochondrial oxidant stress promotes ?-synuclein aggregation and spreading in mice with mutated glucocerebrosidase. NPJ Parkinson's disease, 10(1), 233.

Avvisati R, et al. (2024) Distributional coding of associative learning in discrete populations of midbrain dopamine neurons. Cell reports, 43(4), 114080.

Laguna A, et al. (2024) Modelling human neuronal catecholaminergic pigmentation in rodents recapitulates age-related neurodegenerative deficits. Nature communications, 15(1), 8819.

Massaro Cenere M, et al. (2024) Systemic inflammation accelerates neurodegeneration in a rat model of Parkinson's disease overexpressing human alpha synuclein. NPJ Parkinson's disease, 10(1), 213.

Malikovi? J, et al. (2024) NECAB1-3, parvalbumin, calbindin, and calretinin in the hippocampus of the European mole. Frontiers in neuroanatomy, 18, 1452722.

Santana NNM, et al. (2024) Neuronal Stability, Volumetric Changes, and Decrease in GFAP

Expression of Marmoset (Callithrix jacchus) Subcortical Visual Nuclei During Aging. The Journal of comparative neurology, 532(7), e25649.

Bedolla AM, et al. (2024) A comparative evaluation of the strengths and potential caveats of the microglial inducible CreER mouse models. Cell reports, 43(1), 113660.

Rigney N, et al. (2023) A vasopressin circuit that modulates sex-specific social interest and anxiety-like behavior in mice. bioRxiv : the preprint server for biology.

Stahn L, et al. (2023) Sleeping Beauty transposon system for GDNF overexpression of entrapped stem cells in fibrin hydrogel in a rat model of Parkinson's disease. Drug delivery and translational research, 13(6), 1745.

Kondabolu K, et al. (2023) A Selective Projection from the Subthalamic Nucleus to Parvalbumin-Expressing Interneurons of the Striatum. eNeuro, 10(7).

Delignat-Lavaud B, et al. (2023) Synaptotagmin-1-dependent phasic axonal dopamine release is dispensable for basic motor behaviors in mice. Nature communications, 14(1), 4120.

Guerra M, et al. (2023) Fetal exposure to valproic acid dysregulates the expression of autism-linked genes in the developing cerebellum. Translational psychiatry, 13(1), 114.

Chuhma N, et al. (2023) The dopamine neuron synaptic map in the striatum. Cell reports, 42(3), 112204.

Bautista J, et al. (2023) Pattern of ventral temporal lobe interconnections in rhesus macaques. The Journal of comparative neurology, 531(18), 1963.

Morecraft RJ, et al. (2023) Terminal organization of the corticospinal projection from the arm/hand region of the rostral primary motor cortex (M1r or old M1) to the cervical enlargement (C5-T1) in rhesus monkey. The Journal of comparative neurology, 531(18), 1996.

Joyce MKP, et al. (2023) Subgenual and Hippocampal Pathways in Amygdala Are Set to Balance Affect and Context Processing. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(17), 3061.

Rigney N, et al. (2023) Sex differences in afferents and efferents of vasopressin neurons of the bed nucleus of the stria terminalis and medial amygdala in mice. Hormones and behavior, 154, 105407.

Qi M, et al. (2023) An anatomically distinct subpopulation of orexin neurons project from the lateral hypothalamus to the olfactory bulb. The Journal of comparative neurology, 531(15), 1510.