Resource Summary Report

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Texas University Southwestern Medical Center Whole Brain Microscopy Core Facility

RRID:SCR_017949
Type: Tool

Proper Citation

Texas University Southwestern Medical Center Whole Brain Microscopy Core Facility (RRID:SCR_017949)

Resource Information

URL: https://www.utsouthwestern.edu/education/medical-school/departments/neurology/research/microscopy-facility/

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Description: Core suited to advance study of traumatic brain injury, as well as other neurological and psychiatric disorders.Utilizes microscopy strategies to evaluate neuropathology across micro-, meso-, and macro-scales of inquiry. Provides access to microscopes including TissueCyte 1000 multi-photon microscopes,Hamamatsu NanoZoomer 2.0-HT,Zeiss Axioscan.Z1. Offers access to fluorescence stereomicroscope and upright microscope, both with digital cameras, as well as sectioning equipment (cryostat, microtome, and vibrotome). Provide computer available for use running MicroBrightField Stereo Investigator and Neurolucida software packages for offline stereological analysis, neuron tracing, and 3D rendering of large, whole-brain datasets.

Abbreviations: WBMF

Synonyms: Whole Brain Microscopy Facility

Resource Type: core facility, service resource, access service resource

Keywords: Traumatic, brain, injury, neurological, psychiatric, disorder, microscopy, evaluate, neuropathy, stereological, analysis, neuron, tracing, 3D, rendering, dataset, service, core, ABRF

Funding:

Availability: Open

Resource Name: Texas University Southwestern Medical Center Whole Brain Microscopy Core Facility

Resource ID: SCR_017949

Alternate IDs: ABRF_975

Record Creation Time: 20220129T080337+0000

Record Last Update: 20250508T065813+0000

Ratings and Alerts

No rating or validation information has been found for Texas University Southwestern Medical Center Whole Brain Microscopy Core Facility.

No alerts have been found for Texas University Southwestern Medical Center Whole Brain Microscopy Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 30 mentions in open access literature.

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

LaCroix MS, et al. (2024) Tau seeding without tauopathy. The Journal of biological chemistry, 300(1), 105545.

Eglenen-Polat B, et al. (2024) A telomere-targeting drug depletes cancer initiating cells and promotes anti-tumor immunity in small cell lung cancer. Nature communications, 15(1), 672.

Pal Choudhuri S, et al. (2024) Acquired Cross-Resistance in Small Cell Lung Cancer due to Extrachromosomal DNA Amplification of MYC Paralogs. Cancer discovery, 14(5), 804.

Phinney NZ, et al. (2024) Development of betabodies: The next generation of phosphatidylserine targeting agents. The Journal of biological chemistry, 300(9), 107681.

Eller MM, et al. (2024) Valine and Inflammation Drive Epilepsy in a Mouse Model of ECHS1

Deficiency. bioRxiv : the preprint server for biology.

Wyler S, et al. (2024) Gpr149 is involved in energy homeostasis in the male mouse. PeerJ, 12, e16739.

Poinsatte K, et al. (2024) SpinalTRAQ: A novel volumetric cervical spinal cord atlas identifies the corticospinal tract synaptic projectome in healthy and post-stroke mice. bioRxiv : the preprint server for biology.

Ren W, et al. (2024) Synthesis and biological evaluation of structurally diverse 6-aryl-3-aroyl-indole analogues as inhibitors of tubulin polymerization. European journal of medicinal chemistry, 263, 115794.

Bennett ZT, et al. (2024) Stepwise Ultra-pH-Sensitive Micelles Overcome a pKa Barrier for Systemic Lymph Node Delivery. ACS nano, 18(26), 16632.

Zhu M, et al. (2024) PKD1 mutant clones within cirrhotic livers inhibit steatohepatitis without promoting cancer. Cell metabolism, 36(8), 1711.

Krishnan V, et al. (2024) Clinicopathologic Dissociation: Robust Lafora Body Accumulation in Malin KO Mice Without Observable Changes in Home-Cage Behavior. The Journal of comparative neurology, 532(7), e25660.

Tran DH, et al. (2024) De novo and salvage purine synthesis pathways across tissues and tumors. Cell, 187(14), 3602.

Tappy EE, et al. (2024) Somatic and autonomic nerve density and distribution within the clitoris: an immunohistochemical study in adult female cadavers. International urogynecology journal, 35(7), 1447.

Lim YZ, et al. (2024) Pkd1l1-deficiency drives biliary atresia through ciliary dysfunction in biliary epithelial cells. Journal of hepatology.

Vishlaghi N, et al. (2024) Vegfc-expressing cells form heterotopic bone after musculoskeletal injury. Cell reports, 43(4), 114049.

Stallings NR, et al. (2023) Long-term normalization of calcineurin activity in model mice rescues Pin1 and attenuates Alzheimer's phenotypes without blocking peripheral T cell IL-2 response. Alzheimer's research & therapy, 15(1), 179.

Krishnan V, et al. (2023) Clinicopathologic Dissociation: Robust Lafora Body Accumulation in Malin KO Mice Without Observable Changes in Home-cage Behavior. bioRxiv : the preprint server for biology.

Ramirez DMO, et al. (2023) Endogenous pathology in tauopathy mice progresses via brain networks. bioRxiv : the preprint server for biology.

Gibson JM, et al. (2023) Cerebellar contribution to autism-relevant behaviors in fragile X syndrome models. Cell reports, 42(12), 113533.

Tappy EE, et al. (2023) Somatic and autonomic nerve density of the urethra, periurethral tissue, and anterior vaginal wall: an immunohistochemical study in adult female cadavers. International urogynecology journal, 34(12), 3023.