

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

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: 20260801T191242+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 67 mentions in open access literature.

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

Tod N, et al. (2026) Detecting Collagen Fiber Architecture after Destabilization of the Medial Meniscus Surgery Using High-Resolution Diffusion Tensor Imaging. Journal of orthopaedic research : official publication of the Orthopaedic Research Society, 44(1), e70094.

Ware SA, et al. (2026) Normal cardiac lymphatics and their mimics. American journal of physiology. Heart and circulatory physiology, 330(1), H170.

Jeltema D, et al. (2025) PARP7 inhibits type I interferon signaling to prevent autoimmunity and lung disease. The Journal of experimental medicine, 222(5).

Garza IT, et al. (2025) Preclinical Development of a Vectorized Artificial miRNA Gene Therapy for Tauopathies. bioRxiv : the preprint server for biology.

Murimwa GZ, et al. (2025) SMAD4 Deficiency Promotes Pancreatic Cancer Progression and Confers Susceptibility to TGF?? Inhibition. Cancer research, 85(16), 2987.

Qiao K, et al. (2025) ecDNA-driven oncogene super-expressors shape immunoevasive tumor microenvironment. bioRxiv : the preprint server for biology.

Rowe AA, et al. (2025) Female sex hormones exacerbate retinal neurodegeneration. Science advances, 11(15), eadr6211.

- Yang K, et al. (2025) The STING pathway drives noninflammatory neurodegeneration in NGLY1 deficiency. *The Journal of experimental medicine*, 222(10).
- Eller MM, et al. (2025) Neurological, metabolic and inflammatory phenotypes in a mouse model of ECHS1 deficiency. *Brain communications*, 7(6), fcaf487.
- Garza IT, et al. (2025) Expression and distribution of rAAV9 intrathecally administered in juvenile to adolescent mice. *Gene therapy*, 32(3), 189.
- Galvan M, et al. (2025) Development and Characterization of a Sf-1-Flp Mouse Model. *bioRxiv : the preprint server for biology*.
- Angeles-Perez L, et al. (2025) Cerebellar contributions to tau-mediated cognitive and behavioral dysfunction. *Cell reports*, 44(8), 116036.
- Yang K, et al. (2025) Autonomous STING signaling in Purkinje cells drives neurodegeneration independent of type I interferon. *Cell reports*, 44(11), 116480.
- Nettesheim ER, et al. (2025) Elevated PRDM13 Disrupts Photoreceptor Function and Survival in the Mammalian Retina. *Investigative ophthalmology & visual science*, 66(11), 38.
- Kim DS, et al. (2025) ETP-specific-knockout mice reveal endotrophin as a key regulator of kidney fibrosis in ischemia-reperfusion injury models. *Experimental & molecular medicine*, 57(11), 2475.
- Maggiore G, et al. (2025) Chemoprevention of hepatocellular carcinoma using N-acetylgalactosamine-conjugated siRNAs. *Disease models & mechanisms*, 18(8).
- Zeng Q, et al. (2025) Somatic loss-of-function mutations in CIDEB reduce hepatic steatosis by increasing lipolysis and fatty acid oxidation. *Journal of hepatology*.
- Ghotbi E, et al. (2025) Hair follicle epithelial stem cells contribute to interfollicular epidermis during homeostasis. *JCI insight*, 10(16).
- Trusel M, et al. (2025) Holistic Motor Control of Zebra Finch Song Syllable Sequences. *bioRxiv : the preprint server for biology*.
- Poinsatte K, et al. (2025) SpinalTRAQ: A Novel Pipeline for Volumetric Cervical Spinal Cord Analysis Identifies the Corticospinal Tract Synaptic Projectome in Healthy and Post-stroke Mice. *eNeuro*, 12(9).