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: access service resource, core facility, 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: 20260905T133416+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 80 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Rioux M, et al. (2026) A Head-to-Head Comparison of AAV9 Biodistribution in Mice: Routes of Administration and Age Dependence. Genes, 17(2).

Madhukaran S, et al. (2026) Olfactomedin4 marks luminal progenitor cells that give rise to secretory cell lineage in the mouse cervix. bioRxiv : the preprint server for biology.

Huning NC, et al. (2026) Biomechanical Phenotyping Reveals Unique Mechanobiological Signatures of Early-Onset Colorectal Cancer. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(6), e14693.

Bailey LE, et al. (2026) AAV-mediated gene therapy in a model of SLC13A5 citrate transporter disorder rescues epileptic and metabolic phenotypes. The Journal of clinical investigation, 136(8).

Alvarez-Arguedas S, et al. (2026) Pglyrp1-Cre marks distinct epithelial and immune lineages across mucosal sites. ImmunoHorizons, 10(6).

Trusel M, et al. (2026) Holistic motor control of zebra finch song syllable sequences. Nature, 652(8108), 157.

Alao EO, et al. (2026) Lafora disease gene therapy: EPM2A but not EPM2B overexpression results in Lafora body formation. Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics, 23(2), e00866.

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.

Sun Y, et al. (2026) A human cardiomyocyte screen identifies optimized lipid nanoparticles for in vivo cardiac gene editing. Proceedings of the National Academy of Sciences of the United States of America, 123(21), e2528477123.

Nayab A, et al. (2026) EGFR inhibition down-regulates MGMT and enhances responsiveness to temozolomide in glioblastoma. Science translational medicine, 18(857), eadx8398.

Huang HC, et al. (2026) Kras G12C- and G12D-driven lung cancers differ in oncogenic potency, immunogenicity, and relapse after Kras inhibition in mouse models. Science translational medicine, 18(835), eadq6647.

Jeltema D, et al. (2026) PARP7 protects the lung epithelial barrier from diverse environmental threats. Proceedings of the National Academy of Sciences of the United States of America, 123(10), e2525274123.

Vishlaghi N, et al. (2026) Targeting lymphatic vessels enhances bone regeneration by augmenting osteoclast activity in mouse models of amputation. The Journal of clinical investigation, 136(3).

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

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

Alvarez-Arguedas S, et al. (2025) Pglyrp1-Cre Marks Distinct Epithelial and Immune Lineages Across Mucosal Sites. bioRxiv : the preprint server for biology.

Wanniarachchi HI, et al. (2025) Evaluating Therapeutic Efficacy of the Vascular Disrupting Agent OXi8007 Against Kidney Cancer in Mice. Cancers, 17(5).

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

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.