Animal models are an essential tool for scientists to use to unlock doors to answer important medical questions and provide novel surgical interventions along with pharmaceutical therapies. In addition to the high expense of purchasing the surgical equipment necessary to properly perform these experiments, these procedures are often tedious to learn and take months to obtain consistent data.

The Shared Resource for Neurodegenerative Models fills an essential need of UTHSCSA Investigators and neighboring science community by offering:

- Neurosurgical and General animal surgery procedures
- Access to expensive medical/surgical equipment and facilities
- Training to assist investigators interested in establishing their own animal surgery protocol
- Consultation for preparing IACUC and grant applications
- Collaboration
Services

Rodent Surgical and Pharmacological Models:
- Focal and Global Ischemia Models
- Micro-Stroke Model using Laser
- Hemorrhagic Stroke Model
- Traumatic Brain Injury Model (CCI)
- Spinal Cord Traumatic Injury Model
- Spinal Cord Clip Compression Model
- Stereotaxic Brain Injections
- Stereotaxic Lesions
- Stereotaxic Microinjections of Drugs, Chemicals, and Cells (such as Stem Cells)
- Hypoxic Preconditioning
- Injections (IP, IV, and SC)
- Intubation of Rodents
- Vascular Canulation
- Brain Perfusion and Tissue Collection
- Vessel Denudation
- Cerebral Blood Flow using laser Doppler (MoorLab)
- Blood Gas Analysis including pH, PCO₂, PO₂, SO₂ %, Hct, hemoglobin, Na⁺, K⁺, Cl⁻, and barometric pressure (NovaPhox Plus)
- Mean Arterial Pressure and Intercranial Pressure Monitoring (PowerLab/MacLab)
- Pulse Oximetry (MouseOx)
- Body Core Temperature (Harvard Thermal Control Unit)
- Brain Temperature and O₂ measurements (Licox)
- Ventilation
- Behavioral Testing (AnyMaze tracking software)

Other Services:
- Protocol Consultation
- Animal Survival Care and Monitoring
- Filament Production

Sham MCAO $100.00
MCAO with Monitoring $250.00
Basic TBI - No Monitoring $100.00
Controlled Cortical Impact (TBI Model) $180.00
TBI Model with Video Microscopy/LD $230.00
Spinal Cord Injury $180.00
Vessel Denudation $50.00
Vessel Cannulation (Femoral/Tail/Carotid) $50.00
Blood Pressure/ABG Monitoring $60.00
Stereotaxic Injection (Brain, Spinal Cord) $70.00
CBF Monitoring - Laser Doppler $20.00/Hr
Drug Injection (IM, IP, and SQ) $5.00
Drug Injection (Intra-ventricular - IV) $10.00
Rodent Ventilation $70.00
Brain Perfusion Fixation $50.00
Brain Imaging and Analysis (TTC) $30.00
Animal Surgery Facility Charge $50.00/Hr
Consultation/Training/Protocol Planning $100.00/Hr
Novel Project TBD
Miscellaneous TBD

* Discounts available for UTHSCSA Faculty
**Special Pricing Available
***Above pricing based per animal

http://neurosurgery.uthscsa.edu/SharedResource

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DEPARTMENT OF NEUROSURGERY