

SLU Cores:

1) Comparative Medicine

Contact: John P. Long, DVM

Staff: Charlotte Avett

Phone: 314-977-8345

Website: <http://medschool.slu.edu/compmed>

Services Available:

The Department of Comparative Medicine are committed to supporting the continued advancements in biomedical research. Comparative Medicine (CM) is dedicated to ensuring humane care and use for all animals used in research endeavors. CM provides professional veterinary and technical support services to investigators using animals in experimental procedures.

2) Research Microscopy and Histology Core (RMHC)

Contact: Grant R. Kolar, MD, PhD

Staff: Barbara Nagel

Phone: 314-977-7848

Website: http://path.slu.edu/microscopy_core/

Services available:

Brightfield, phase contrast and differential interference contrast light microscopy, Epi-fluorescence microscopy, Laser scanning confocal microscopy and multiphoton confocal microscopy including live animal scanning confocal microscopy and transmission and scanning electron microscopy (including elemental analysis). Training in the techniques of research microscopy, fixation and processing of samples into paraffin, sectioning of tissue blocks for LM histology (paraffin and frozen) and EM ultrastructure (plastic), Immunohistochemistry and immunofluorescence staining, routine and special histological stains, negative staining and immunogold staining for EM and tissue microarray construction, sectioning and staining.

3) Genomics Core

Contact: Dale Dorsett, PhD

Staff: Audrey Watson

Phone: 314-977-9218

Website: <http://biochem.slu.edu/genomicscore/>

Services Available:

Next Generation Sequencing (NGS); micorarray-based transcription profileng and chromatin immunoprecipitation mapping, Agilent (sizing and integrity/quality control of DNA and RNA) and Qubit (accurate quantitation of DNA and RNA).

SLU Cores:

Equipment available: Ion Torrent Proton Sequencing system (Ion Chef and Ion Proton sequencer), Affymetrix Microarray system (two Fluidics systems, one Hybridization Oven and one Scanner), Agilent BioAnalyzer, Qubit Fluorometer and Partek Genomic Suite software

4) Protein Core

Contact: David Wood, PhD

Phone: 314-977-9220

Website: <http://biochem.slu.edu/proteincore/coreindex.shtml>

Services Available:

Protein production, bacterial culture in shake flasks and high density bacterial fermentation up to 5 L, protein expression and soluble recovery analysis, protein purification, preparative or analytical scale, analytical HPLC separation, reversed phase, SEC, ion-exchange, affinity, MALDI mass spectrometry, protein identification and protein structural characterization, MALDI mass spectrometry and N-terminal sequence analysis.