

SLU Cores:

1) Comparative Medicine Core

Director: John P. Long

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 core

Director: Grant Kolar

Staff: Barbara Nagel

Phone: 314-977-7848

Website: kolargr@slu.edu

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), Immunocytochemistry 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

Director: Dale Dorsett

Staff: Audrey Watson

Phone: 314-977-9218

Website: dorsettd@slu.edu

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).

Equipment available: Ion Torrent Proton Sequencing system (Ion Chef and Ion Proton sequencer), Affymetrix Microarray system (two Fluidics systems, one Hybridization Oven

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and one Scanner), Agilent BioAnalyzer, Qubit Fluorometer and Partek Genomic Suite software

4) Proteomics Core

Director: David Wood

Phone: 314-977-9220

Website: dwood12@slu.edu

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.