The Training Coordinator is always available to assist with an established procedure or technique listed below, or can arrange for specialized technical assistance, or with the veterinarians and other staff can assist with the development of a unique procedure or technique that is not listed below.

Research personnel interested in having Comparative Medicine staff either assist with one of the techniques or special procedures listed below, or with training in order to independently perform an unfamiliar technique or procedure, or with developing a procedure or technique not listed below, should request guidance from the Training Coordinator at mbaldwin@usf.edu or phone 974-9260.

BASIC TECHNICAL SKILLS & SERVICES – Many of the Basic Technical Skills & Services listed below can be arranged by directly contacting the local Facility Manager, since animal care technicians in each facility have developed expertise in these procedures.

Injections
- Intraperitoneal – all rodent species
- Subcutaneous – all species, including large air pouches in mice, rat
- Subcutaneous / “Flank” - mice
- Intradermal – rat, guinea pig, rabbit, dog, swine, NHP
- Intracardiac administration – rat, mice, guinea pig, hamster
- Intramuscular – rat, mice, guinea pig, rabbit, dog, cat, mini-swine, goat, NHP
- Intratracheal – mice, rat
- Intrathecal – rat
- Intraspliconic – mice, rat
- Intravenous
  - Tail vein – rat, mice
  - Cephalic and Saphenous veins – dog, cat, NHP
  - Marginal ear vein – guinea pig, mini-swine, rabbit
  - Penile vein – rat, mice, hamster

Oral Dosing (via needle/feeding tube) – all species

Bleeding Techniques
- Submandibular - mice
- Retro-orbital sinus – mice, rat, hamster, guinea pig
- Cardiac puncture – all species
- Posterior vena cava – all species
- Abdominal aorta – all species
- Jugular vein – rabbit, dog, goat, cat, mini-swine, rat
- Auricular artery – rabbit, swine
- Cephalic vein – dog, cat, NHP
- Saphenous vein – dog, cat, mice, NHP
- Femoral vein – mouse, rat, dog, cat, NHP
- Tail vein – rat, mouse (glucose)

Perfusion – whole body and brain – rat, mice

Euthanasia – all species

Ear Notching – mice, rat, hamster

Ear Tagging – mice, hamster, rat, guinea pig, rabbit

Tail Snipping – mice, rat

Tattooing – pen – mice, rat, rabbit, NHP
ADVANCED TECHNICAL SKILLS & SERVICES – These skills and services can be arranged by contacting either the Training Coordinator at 974-9260, or the facility manager in which your animals are housed.

Surgical Assistance (pre-, intra-, and/or post-operative support) – all species
  Rodent Surgical Procedures
    Cannulations
      Femoral vein and artery – rat, swine
      Carotid artery – rat, mice, guinea pig, swine
      Jugular vein – rat, mice, guinea pig, swine
      Bile duct – rat, hamster, mice
      Intestinal tract – rat, hamster, mice
    Implantations (pellet, osmotic pump, tissue, telemetry devices, vascular access ports SC or IP placement) – rat, mice
    Nephrectomy – rat, mice
    Splenectomy – rat, mice
    Lung transplant – mice
    Cecal sub-mucosal injection – mice
    Dorsal Window Chamber – mice
    Dorsal Cranial Chamber – mice
    Myocardial Infarctions (cryo and ligation) – mice
    Middle Cerebral Artery Occlusion – rat

Endotracheal Intubation – rat, mice, rabbit, dog, NHP

Patient Monitoring (pulse oximetry) – all species

General Anesthesia (injectables, inhalants) – all species

Rodent Colony Management
  C-section, Re-Derivation – mice
  Vasectomy, Ovariectomy – mice, g.pig
  Ovarian transplant – mice
  Estrus Detection – mice, rat
  Weaning – mice, rat

Necropsy, Organ Collection, Full Prosection – all species
  Follicle/Ova/Mesenchymal collection - mice
  Embryo Collection (PCD 5 - 13) - Mice
  Oocyte collection and defolliculation – frog
  Prostate – mice, rat

Perfusion (organ-specific, systemic) – all species

Radiography, Fluoroscopy Assistance – all species

Bioluminescence Imaging – mice

Vaginal Lavage – rat, mice

Imaging Services – (Note: may need to schedule through Imaging Core and additional fee may be assessed for use of equipment by the department. Contact with appropriate individuals may be accomplished by contacting facility manager where equipment of interest is located. Comp Med staff is available to prep animals and collect images.) - mice, rat
  Ultrasound and ultrasound guided injections (lymph node, pancreas, prostate – also available as surgical model) – mice, rat
  Fluoroscopy – swine, rabbit, NHP
  IVIS/Xenogen – mice, rat
  MRI – mice
  Doppler – rat, guinea pig
  Camera (video/still capabilities) mounted on dissecting scope – mice, rats