SRL specializes in vivo orthopaedic and soft tissue preclinical research. The five ACVS boarded veterinary surgeons in SRL are highly trained, having performed several thousand orthopaedic and soft tissue surgeries. SRL has ten fulltime staff members and its facilities house over 400 sheep making the lab prepared to organize and perform your study in a timely and highly efficient manner. Through collaboration with the Orthopaedic Bioengineering Research Laboratory, the lab provides the following additional services:

- Digital radiographic imaging
- CT imaging
- MR imaging
- Ex vivo biomechanical testing
- MicroCT
- Histopathology
- Histomorphometry

SRL is an AAALAC approved and GLP capable laboratory affiliated with Colorado State University.

Contact SRL to draft a complete scope of work including a budget estimate for your next study using a sheep model.
Dr. A. Simon Turner, a leading authority in large animal surgery, established Surgical Research Laboratory 20 years ago to provide a large animal model that could be used to study a variety of products and implants. His vast experience and knowledge of sheep as a research model advanced SRL to an internationally known status and highly respected research facility. Since 1989, SRL has used sheep as a successful experimental model. Many of the devices studied have ultimately been cleared for use in people.

Recently named a Professor Emeritus at CSU, Dr. Turner continues to play a vital role in all studies performed at SRL.

MISSION STATEMENT
The research team of SRL advances the field of human medicine through the ethical use of sheep as a model of disorders including all manner of orthopaedic, soft tissue and metabolic conditions.

We accomplish this by providing the university, private and corporate researchers with a state-of-the-art laboratory dedicated to professional service, research efficiency and cutting edge technologies. Most of all, we pledge quality care and compassion to the sheep that help advance the field of human medicine.

SRL SHEEP MODELS

ORTHOPAEDIC
• Bone healing studies
• Internal fixation implant testing
• External fixation implant testing
• Allograft, autograft and xenograft testing
• Osteochondral defect/cartilage regeneration

SPINE
• Lumbar interbody fusion
• Posterolateral intervertebral fusion – PLIF
• Cervical fusion
• Vertebroplasty
• Laminectomy

SOFT TISSUE
• Wound reconstruction/healing
• Urogenital implants
• Laparoscopic surgery

PHARMACOLOGICAL
• Safety, efficacy and pharmacokinetics
• Pain management

SPORTS MEDICINE
• ACL/Meniscus
• Tendon/ligament reconstruction/healing
• Rotator cuff
• Arthroscopic surgery

OSTEOPOROSIS
• Nutritional studies
• Hormonal studies
• Laparoscopic ovariectomy