

# Orthopedic Implant Studies

With exceptional expertise based on many years of testing experience, WuXi AppTec offers orthopedic medical device manufacturers a comprehensive program of custom implant studies. These services are provided through WuXi AppTec's associate facility, Ibex Preclinical Research, Inc., located in Logan, Utah. Ibex is registered with the USDA and operates in accordance with the Guide for the Care and Use of Laboratory Animals.

The Ibex facility has the capacity to house multiple species for implant and toxicology studies. A fully functional surgical suite has adjoining sterile preparation and animal prep areas. Supporting equipment includes anesthesia, ventilator, suction, autoclave, electrocautery, radiography, implantable telemetry, angiography and ECG monitoring.

WuXi AppTec is a global leader in providing discovery, testing and manufacturing services for the pharmaceutical, biotechnology and medical device industries. Research-driven and customer-focused, with operations in China and the U.S., WuXi AppTec offers a broad and integrated portfolio of services designed to assist our customers with cost-effective and efficient outsourcing solutions.

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## Program Features

- Research, discovery, preclinical, and safety studies (GLP and Research)
- Model development and study design development
- Device design, materials evaluation and biocompatibility testing
- In-house surgeons OR support for sponsor-provided surgeons
- Radiography / fluoroscopy capability
- Animal Models: Mouse □ Rat □ Rabbit □ Dog □ Sheep □ Goat □ Pig
- Long-term, large-animal study capabilities
- Experienced study director and veterinary research surgeon
- In-house histopathology interpretation and clinical pathology evaluation

## Implant Material Experience

Experienced in a variety of orthopedic materials, including:

- Dematerialized bone matrix combined with various carriers
- Biologic polymers
- Polymer with growth factors
- Stem cells
- Ceramics
- Collagen-based injectables

## Implant Study Experience

Experienced in pilot, acute and chronic implant studies, including:

- Segmental long bone defect models for critical size healing analysis
- Drill defect models for bone healing and osteoinductive response
- Posterolateral spinal fusion models for reconstruction
- Articular cartilage repair/implant to evaluate cartilage restoration
- ACL transection models to evaluate osteoarthritis treatment modalities
- Synovial joint models to determine efficacy (ROM) of various injectables

## Project Progression



*In addition to implant studies, WuXi AppTec offers complete biocompatibility/safety and toxicology testing.*

For more information on WuXi AppTec's services please contact:

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