Minimally-invasive surgery is increasing in popularity because of the smaller surgical incisions, reduced scarring, increased safety, quicker recovery period and shorter hospital stays compared to conventional, open surgery. These procedures are performed either via small incisions in the abdominal wall (laparoscopy) or through a natural orifice (NOTES procedures). Because of the increasing popularity of minimally-invasive surgery, specific devices, instruments and procedures are being designed for use in this paradigm, particularly in the fields of gastrointestinal, bariatric, gynecological, urological and general surgery.

CBSET is a leader in the pre-clinical in vivo evaluation and development of novel therapeutic and surgical technologies, and can provide support for all phases of biomedical discovery and development research. CBSET has developed specialized expertise in the GLP or non-GLP evaluation of minimally-invasive surgical devices and surgical procedures, as well as physician assessment of surgical instruments, and safety and efficacy of laparoendoscopic devices. These procedures include:

- Bariatric surgery
- Organ or tissue biopsy / removal
- EUS-FNA
- ERCP
- NOTES procedures
- Hernia repair
- Esophageal or biliary stenting
- Incision closure
- Arthroscopy
- Bronchoscopy
- Narrow-band imaging

CBSET is equipped with an Olympus EVIS EXERA II laparoendoscopic tower, including: VISERA PRO HD camera head, CO2 insufflation unit, 0° and 30° laparoscopes, dual-channel gastroscope, high-definition monitor, narrow-band imaging technology and DVD recording capabilities. CBSET also provides an oversized surgical suite that can accommodate multiple stations, with an adjacent conference room whose viewing window and audio/video system allow monitoring and communication with the surgery suite. Our uniquely skilled technical and surgical staff has extensive experience with complex surgical models in animals, as well as support of physician assessments and physician training in either animals or cadavers. In addition, CBSET’s board-certified veterinary pathologists can evaluate and characterize tissue damage, repair, or response to implanted devices using histological methods.
ABOUT CBSET
CBSET is an AAALAC accredited, not-for-profit, pre-clinical research organization dedicated to research, education, and the advancement of early-stage biomedical technologies. Our mission is to assist in methodologies uniquely suited for novel and innovative treatments for complex diseases. We offer a full range of GLP and non-GLP services, ranging from early product evaluation through lead optimization and pre-clinical safety, to physician assessment and training courses. We specialize in the development and application of techniques in the fields of cardiology, electrophysiology, orthopedics, wound healing, regenerative medicine, endoscopy/laparoscopy, drug and device delivery and safety, cellular therapy, and diagnostic imaging. Our world-renowned regulatory and scientific expertise helps transform early-stage concepts into novel therapies.

CBSET EXPERTISE
Our professionally trained staff and consultants provide expertise for all phases of biomedical discovery and development research including regulatory consulting, veterinary medicine, surgery and minimally invasive surgery, imaging, pharmacokinetics and drug metabolism, drug and device safety, pharmacology, lead optimization, and specialized histopathology and pathology. These individuals provide the basis for successful scientific collaborations, rapid concept advancements, unparalleled consultation services, and expert dissemination of information and findings to regulatory and scientific bodies.

CBSET offers a full range of GLP and non-GLP services, from early product evaluation through lead optimization and pre-clinical safety, to physician assessment and training courses. Our expertise includes:

- Stents/balloons
- Novel catheters/wires
- Robotic-assisted surgery
- Vessel sealing/closure devices
- Heart valve replacement/repair
- Cardiopulmonary bypass
- Beating heart technology
- Electrophysiology devices
- Tissue ablation devices
- Endovascular/NOTES surgery
- Laparoscopic surgery
- Orthopedic devices
- Novel surgical instruments
- Wound healing devices
- GLP training and regulatory consulting

CBSET FACILITIES
CBSET offers an unparalleled, GLP-compliant, 30,000 square foot state-of-the-art facility within minutes of Cambridge, Boston, and Logan International Airport. Our facility includes vivariums, catheterization/imaging labs, and full surgical suites containing the latest equipment for fluoroscopy, echocardiography [TEE/TTE], electrophysiology, IVUS, optical coherence tomography [OCT], endoscopy/laparoscopy, orthopedic surgery, and surgical video recording. CBSET offers dedicated labs for GLP-compliant SEM, specialty histopathology/pathology, metabolism and pharmacokinetics.