The MSU In Vivo Facility has a specialized team dedicated to rodent coronary artery ligation surgeries and has had extremely successful outcomes involving rodent myocardial infarction and heart failure models. These surgeries are performed by licensed veterinarians with the associated anesthesia conducted by licensed veterinary technicians.

To date, we have performed hundreds of rodent coronary artery ligation surgeries and typically achieve over 70% survival of both normal and immunocompromised rats undergoing LAD or LCA ligations. The majority of these animals have large infarctions involving over 45% of the left ventricular wall.

Structural and functional changes are measured using a Visualsonics Vevo 2100 high frequency rodent ultrasound unit with the availability of a board-certified veterinary cardiologist to assist with interpretation.

We are able to tailor our heart failure and infarction models to meet the specific needs of your particular compound or discovery program.