

**Animal Surgery – Regenerative Medicine for Cardiac and Skeletal Muscle Disease.**

We are seeking a highly qualified individual with extensive experience in animal surgery and handling. The main research area of our group is regenerative therapies for cardiac and skeletal muscle injury and disease. Experiments will involve induction of myocardial infarction and transverse aortic constriction in mouse, rat and mini-pig hearts, implantation of a cardiac tissue patch on the rat and mini-pig hearts and follow-up physiological and hemodynamic studies. Furthermore, surgical experience in inducing muscle hindlimb ischemia and generation of large volumetric muscle loss in mice and rats and implantation of engineered muscle tissues at the site of muscle injury are highly desired.

Qualifications include PhD, MD, DVM, MS, or equivalent degrees in physiology, veterinary medicine, medicine, or other relevant areas of biomedical sciences. The ideal candidate will be highly self-motivated and possess strong surgical training and extensive experience with the heart and muscle injury models in small animals. Additional experience with large animal cardiac surgery is greatly desired. Our group is a highly diverse and stimulating environment that provides excellent opportunities for scientific growth in the pursuit of a variety of careers. Interested candidates should send their resume, statement of research goals, and three letters of recommendation to Dr. Nenad Bursac (nbursac@duke.edu).

Lab website: <http://bursaclab.bme.duke.edu/index.php>