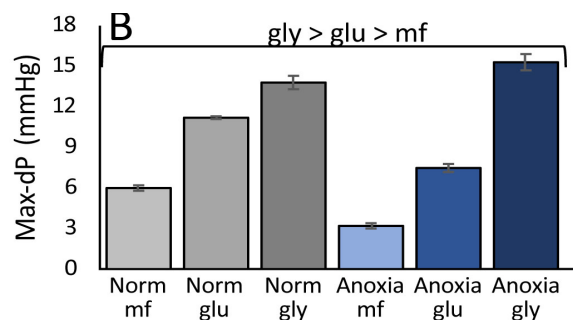
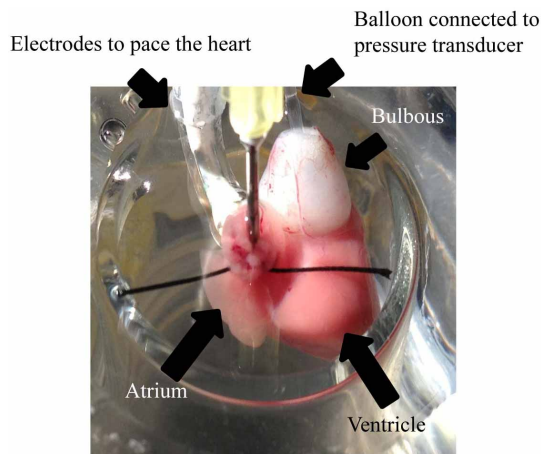
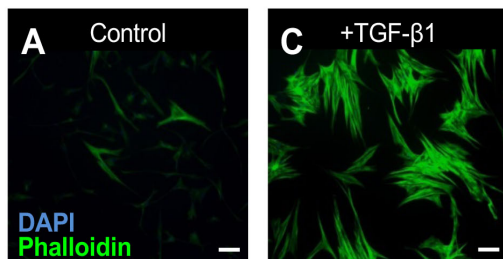


PhD Position in comparative cardiovascular physiology

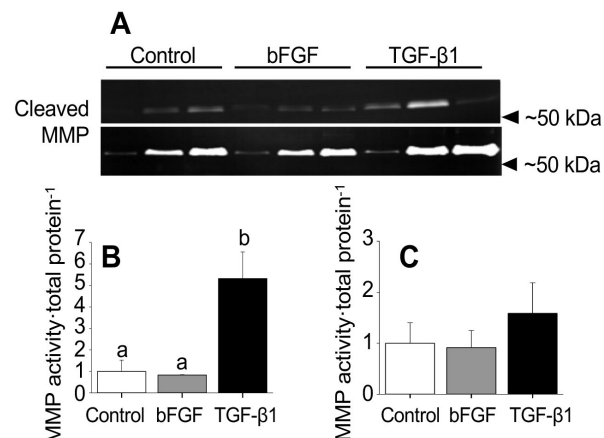
The Gillis Lab at the University of Guelph is looking for a highly motivated PhD student. The general focus of the lab is the vertebrate heart and the mechanisms that regulate its function and ability to remodel in response to a physiological stressor. Available projects include figuring out how the hagfish heart can function during anoxia, examining the causes and consequences of temperature induced cardiac remodeling in fish and characterizing the role of the myofilament in the evolution of heart function. Students and Post-Doctoral Researchers in the lab integrate a variety of molecular, proteomic, cellular and whole animal approaches so that a physiological system can be examined across multiple levels of biological organization. Interested candidates should have a strong background in at least one of the following fields: cellular biology, proteomics, biochemistry, molecular biology or animal physiology. Interested candidates should send Dr. Gillis (tgillis@uoguelph.ca) a current CV, a statement of research interests and the names of two academic references. This position is available to start September 2019, but this date is flexible. The minimum stipend for a PhD student is \$25,171 per year for 4 years. Further information about the Gillis Lab can be found at: <http://comparativephys.ca/gillislab/>
For publications from the Gillis Lab please see [Google Scholar](#)



The influence of supplemental glycerol or glucose on the averaged maximal pressure development by excised hearts from *E. stoutii* measured between hours 6 and 12 of normoxia or anoxia exposure. (Gatrell et al. 2019)



Morphological changes in trout cardiac fibroblasts treated with TGF- β 1. (Johnston and Gillis, 2018)



Gelatin zymograms showing the influence of bFGF and TGF- β 1 treatment on the presence and activity of gelatinases in trout cardiac fibroblast cultures. (Johnston and Gillis, 2018)