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The Queen's University Muscle Physiology Lab ([QMPL](#)) is accepting applications to the SKHS graduate research program at both MSc and PhD levels. Successful applicants will be supervised by Dr. Brendon Gurd.

Dr. Gurd is committed to providing research opportunities to BIPOC students. If you identify as a BIPOC student and are interested in nutrition and exercise metabolism you are highly encouraged to apply. If you are comfortable doing so please identify yourself as BIPOC in your application.

Human skeletal muscle possesses the ability to respond to energetic stress by increasing both the quantity and quality of its mitochondria. The mechanisms that determine the induction of this process, termed mitochondrial biogenesis are incompletely understood. The long-term goal of Dr. Gurd's NSERC-Funded research program is to advance our understanding of the mechanisms that control mitochondrial biogenesis in human skeletal muscle.

Over the next 5 years Dr. Gurd will seek to resolve