



DETECTING HOW MUSCLE MITOCHONDRIA, THE POWERHOUSES OF THE CELL, ARE AFFECTED BY EXERCISE, HORMONES AND DRUGS

A lifelong endurance sport enthusiast, **Dr. Daniel Kane** in the StFX Department of Human Kinetics is passionate about exploring how exercise affects the metabolic physiology of skeletal muscle. With his \$120,000 NSERC Discovery Grant, he is researching the effects of increased energy demand associated with physical exercise on skeletal muscle mitochondrial function, which has been linked to human health and disease, and the aging process. Dr. Kane and his team of student researchers are working to expose key regulators of mitochondrial bioenergetics that have been missing from fundamental models of cellular physiology and account for many of the benefits of exercise to human health.