



Centre for
Heart Lung Innovation
UBC and St. Paul's Hospital

Assistant Professor Research Presentation



Utilizing the oxygen transport cascade to understand and ameliorate the limitations to exercise

Andrew D'Souza, PhD
Postdoctoral Fellow
Faculty of Medicine
University of Alberta

Wednesday, June 5th 9:00 AM– 9:45AM
James Hogg Conference Centre (JHCC) Room 103
1st Floor Burrard Building, St. Paul's Hospital
(ZOOM info provided to those that registered)

Andrew is a postdoctoral fellow in the Faculty of Medicine and Dentistry at the University of Alberta. He completed his doctoral degree at Western University in London, Ontario which focused on how biological sex and sex hormones impact the sympathetic nervous system's ability to regulate arterial blood pressure and blood flow. His current research is focused on understanding the mechanisms underlying the pulmonary circulatory adjustments to physiologically relevant stressors (e.g., exercise, posture), and evaluating the cardio- and pulmonary vascular impacts of targeted pharmacotherapies in health and disease. Additionally, he is involved in ongoing work with the G.F. MacDonald Centre for Lung Health Pulmonary Rehabilitation Centre which aims to advance exercise-based rehabilitation interventions and improve patient quality of life. Moving forward, Andrew plans to create a research program that will advance our understanding of how multiple physiological systems (nervous system, heart, lungs, skeletal muscle) interact to meet the metabolic demands of exercise, with a particular emphasis on how sex, sex hormones and gonadal aging (e.g., menopausal transition) impact the integrative physiological responses to exercise. Additionally, Andrew is interested in working towards optimizing exercise-based rehabilitation to have the most positive impact on patients' lives.



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