

CHRISTOPHER G. R. PERRY

School of Kinesiology and Health Science
Rm 341 Norman Bethune Bldg, York University,
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CITIZENSHIP: Canadian

ACADEMIC POSITIONS

Professor School of Kinesiology and Health Science, and Muscle Health Research Centre York University, Toronto, ON, Canada	2024-Present
Associate Professor School of Kinesiology and Health Science, and Muscle Health Research Centre York University, Toronto, ON, Canada	2017-2024
Assistant Professor School of Kinesiology and Health Science, and Muscle Health Research Centre York University, Toronto, ON, Canada	2012-2017
Director , Muscle Health Research Centre, York University	2023-Present
Associate Director , Muscle Health Research Centre, York University	2021-2023
Special Graduate Faculty , Purdue University, USA	2021-Present
Elected member, Centre for Research on Biomolecular Interactions York University	2020-Present
Special Graduate Faculty , University of Guelph, Canada	2015-Present
Full Member , Graduate Program in Biology, York University, Canada	2014-Present
Elected member, Muscle Health Research Centre Executive Committee York University	2019-Present

PROFESSIONAL SERVICE AND APPOINTMENTS

Scientific Advisor , Mito2i (national network for mitochondrial disease, Canada)	2020-Present
Membership Services Committee , Canadian Society for Exercise Physiology	2019-Present
Elected Executive Member , Board of Directors, Canadian Oxidative Stress Consortium	2014-Present
Appointed Leader , Bioenergetics Pillar of MitoNET Canada	2017-2019
Elected Director Academic , Board of Directors, Canadian Society for Exercise Physiology	2015-2019

POST-DOCTORAL TRAINING

Post-Doctoral Fellow Department of Human Health and Nutritional Sciences, University of Guelph, Guelph, ON, Canada	2011-2012
Post-Doctoral Scholar Departments of Physiology and Kinesiology, The Brody School of Medicine, East Carolina University, Greenville, NC, USA	2008-2011

EDUCATION

Ph.D. Human Skeletal Muscle Metabolism University of Guelph, Guelph, ON CANADA	2004-2008
M.Sc. Human Exercise Physiology University of Guelph, Guelph, ON CANADA	2002-2003
B.Sc. Human Kinetics, Honours (with Distinction) University of Guelph, Guelph, ON CANADA	1998-2002

RESEARCH FUNDING

PI External Funding:	\$2,009,410
CO-PI/Applicant External Funding:	\$1,238,078
<u>Total External Funding:</u>	<u>\$3,247,488</u>
Internal Funding:	\$187,150
Total Funding:	\$3,434,638

CO-PI Network Funding: \$3,000,000

Co-Applicant, Operating: CIHR-ICanCME 2.0 Network Grant 2024-2029
Title: CanCME: Interdisciplinary Canadian Collaborative Myalgic Encephalomyelitis
Research Network
PI: Alain Moreau, Professor, Université de Montreal
Total: \$2,000,000 CAD

PI, Operating: Exerkine Corporation 2024-2025
Title: Nutritional intervention to prevent muscle loss in response to semaglutide
pharmacotherapy
Total: \$43,568 CAD

PI, Operating: MITACS 2024-2026
Title: Metabolic enhancing therapies for Duchenne muscular dystrophy
Total: \$82,500 CAD

PI, Infrastructure: NSERC Research Tools and Instruments Grant 04/2024
Title: A core high-frequency ultrasound imager for non-invasive measures of cardiac
structure and function as well as muscle structure in mice
CO-PI: Ali Abdul-Sater, York University.

Total: \$150,000 CAD

Co-Applicant, Operating: CIHR-IMHA Network Grant 2023-2028
Title: NMD4C: the neuromuscular network for Canada
PI: Hans Lochmuller, CHEO Research Institute, Ottawa
Co-Applicants: 60 additional neuromuscular disease researchers
Total: \$1,000,000 CAD

PI, Operating: Industry (Stealth Biotherapeutics, Inc.) 2023-2025
Title: Determining the efficacy of novel compounds to treat myopathies
Total: \$202,000 CAD (\$150,000 USD)

PI, Operating: MITACS
Title: Mitochondrial-targeted therapies to improve Duchenne muscular dystrophy 2022-2026
outcomes
Total: \$146,250

PI, Operating: Muscular Dystrophy Canada Translational Science Seed Grant 2022-2024
Title: Mitochondrial-targeted therapies to improve Duchenne muscular dystrophy
outcomes
Co-I: Thomas Hawke, McMaster University
Total: \$100,000

Co-Investigator, CIHR Project Grant 2022-2027
Title: Targeting vascular and skeletal muscle health to improve the quality of
life in males and females with Type 1 Diabetes
PI: Thomas Hawke and Maureen MacDonald, McMaster University
Total: \$875,925

PI, Operating: MITACS Accelerate 2021
Title: Pre-clinical development of a novel therapy for myopathies
Total: \$15,000

Co-PI, Operating: Dairy Farmers of Canada
Title: Influence of increased dairy product consumption on markers of inflammation 2020-2022
and cardiometabolic disease – A crossover study
PI: Andrea Josse, York University.
Co-PIs: Heather Edgell, York University. David Wright, University of Guelph
Total: \$140,000

PI, Operating: Industry (Allysta Pharmaceuticals, Inc.) 2020-2021
Title: Pre-clinical therapy development for myopathies
Total: \$97,500

PI, Operating: Industry (F2C Nutrition) 2019-2020
Title: Assessments of blood inflammatory markers post-exercise
Total: \$12,875

PI, Operating: NSERC Discovery Grant Title: Regulation of mitochondrial bioenergetics in striated muscle. Award # 2019-06687. Total: \$240,000	2019-2024
PI, Operating: Industry (Stealth Biotherapeutics Inc.) Title: Determining the efficacy of SBT-20 in Duchenne muscular dystrophy. Newton, MA, USA Total: \$38,565 CAD (\$30,000 USD)	2018-2019
PI, Operating: Early Researcher Award, Ministry of Research, Innovation and Science. Province of Ontario, Canada Title: Developing novel therapeutics to treat muscle weakness in Duchenne muscular dystrophy Total: \$150,000	2018-2023
CO-PI, Operating: Karolinska Institutet Doctoral student funding (KID) Stockholm, Sweden Title: <i>The Role of Red Blood Cell Arginase and Nitric Oxide in human skeletal muscle re-modelling</i> PI: T. Gustafsson. Karolinska Institutet, Sweden. Co-applicant: Tara Haas. York University. Total award: 320,000 SEK (~\$49,344 CAD)	2017-2018
CO-PI, Infrastructure: NSERC Research Tools and Instruments Grant Title: <i>UPLC System for Muscle Health Research</i> PI: David Hood. York University. CO-PI: Olasunkanmi Adegoke, Peter Backx, York University. Total Award: \$143,809	04/2017
CO-PI, Operating: Centre for Sport Research (Centrum för Idrottsforskning) Title: <i>RNAseq analyses of human muscle responses to exercise.</i> PI: J. Norrbom, Karolinska Institutet, Stockholm, Sweden Total award: 90,000 SEK (\$13,500 CAD)	2017-2018
PI, Operating: Rare Disease Foundation Microgrant Title: A novel mitochondrial-therapy to treat Duchenne muscular dystrophy Total: \$3,375	2016-2017
PI, Infrastructure: NSERC Research Tools and Instruments Grant Title: A core in vivo microCT imaging system for analyzing body composition, circulation and cardiorespiratory function in rodents. CO-PI: Rolando Ceddia, Michael Riddell, Anthony Scime, David Hood, Tara Haas, York University. Total Award: \$150,000	04/2015
PI, Infrastructure: Canadian Foundation for Innovation John R. Evans Leaders Fund and Ontario Research Fund. (P.I.)	03/2014

Title: Integrative mitochondrial bioenergetic facility for the study of muscle wasting diseases. Award #: 32449

Total Award: \$334,897. Supplemented with \$38,000 IOF (Infrastructure Operating Funds).

PI, Infrastructure/Operating: The James H. Cummings Foundation Grant. (P.I.) 12/2013

Title: Acquisition of a PTI Quantamaster 40 spectrofluorometer for the study of mitochondrial bioenergetics in muscular dystrophy

Total Award: \$68,880 (\$56,000 USD)

PI, Operating: NSERC Discovery Grant 2013-2019

Title: A novel paradigm of metabolic regulation: acute and chronic redox-circuitry control of energy homeostasis

Total Award: \$174,000

Previous CO-PI, Operating: Centre for Sport Research (Centrum för Idrottsforskning) Stockholm, Sweden: 2011-2013

Title: *Optimal performance - molecular methods for individual guidelines for dietary and exercise regimens.*

PI: Carl Johan Sundberg. Karolinska Institutet, Sweden.

CO-PI: J. Norrbom. Karolinska Institutet, Sweden.

Total award: 100,000 SEK (~\$15,500 CAD).

Institutional Funding (Internal)

PI, Faculty of Health Collaborative-based Research Seed Grant 2022-2023

Title: Developing a mouse model of neuromuscular disease for preclinical therapy development

Co-I: Ali Abdul-Sater and Arthur Cheng, York University

Total: \$15,000

York University Minor Research Grants and Junior Faculty Fund (P.I.): 2013-2019

Assessment of mitochondrial function in muscle wasting diseases.

6 Junior Faculty Fund, 5 Minor Research Grants, other; total: \$33,850

York University Conference Travel Fund (P.I.) 2012-2019

Total Awards: \$6,300 (x7)

Research in the Time of Covid-19 (Co-P.I.) 2020

Total Award: \$5,000

York University Start-up funds 2012

Total Award: \$120,000

AWARDS AND RECOGNITIONS AS FACULTY:

President's Emerging Research Leadership Award (PERLA) 2020

Dean's Award for Excellence in Service to the University and Community: Early Career 2019

- Faculty of Health, York University

York Research Leader Award	2019
Dean's Award for Excellence in Research: Early Career	2017
<ul style="list-style-type: none"> Faculty of Health, York University 	

TRAINEES AND PERSONNEL

Post-Doctoral Fellow

Dr. Laura Castellani	01/21-12/21
<ul style="list-style-type: none"> <i>MITACS Accelerate (\$10k)</i> 	

PhD Students

Aditya Brahmhatt (Co-supervisor with Thomas Hawke, McMaster University)	09/23-Present
<ul style="list-style-type: none"> <i>MITACS Accelerate (\$10k)</i> 	
Madison Garibotti	09/23-Present
<ul style="list-style-type: none"> <i>Ontario Graduate Scholarship (\$15k), MITACS Accelerate (\$60k)</i> 	
Joel Prowting (Co-supervisor with Andrea Josse, York University)	09/20-Present
<ul style="list-style-type: none"> <i>CIHR CGS-D (\$35k/yr, 3 yrs)</i> 	
Shivam Gandhi	09/19-Present
<ul style="list-style-type: none"> <i>Ontario Graduate Scholarship (\$15k, x2), MITACS-Research Training Award (\$6k), Ontario Graduate Scholarship (\$10k), MITACS Accelerate (\$20k), Journal of Physiology PhD Graduate Student Award (2024), Finalist for Best Poster at Muscle Health Awareness Day (2023), American Journal of Physiology Cell Physiology award (2023)</i> 	
Luca Delfinis	09/20-08/24
<ul style="list-style-type: none"> <i>NSERC CGS-D (\$35k/yr, 3 yrs), Ontario Graduate Scholarship (\$15k), MITACS Accelerate (\$10k)</i> 	Graduated
Catherine Bellissimo	09/17-08/22
<ul style="list-style-type: none"> <i>NSERC PGS-D (\$21k/yr, 3 yrs), Ontario Graduate Scholarship (\$15k), MITACS Accelerate (\$10k), Best Presentation Award at the Muscle Health Awareness Day 12 (2021), Poster award at American Physiological Society Integrative Physiology of Exercise (USA, 2020), Ontario Exercise Physiology meeting Student Award (2019)</i> 	(full time); 09/22-04/23 (part-time) Graduated
Meghan Hughes	09/15-04/19
<ul style="list-style-type: none"> <i>Governor General's Gold Medal at Graduation</i> <i>Faculty of Graduate Studies Dissertation Prize</i> <i>NSERC CGS-D Alexander Graham Bell Scholarship (\$35k/yr, 3 yrs), Ontario Graduate Scholarship (\$15k), Queen Elizabeth II Graduate Scholarship in Science and Technology (\$15k), Best poster at Advances in Skeletal Muscle Biology in Health and Disease (USA, 2019), Ontario Exercise Physiology Student Award (2015), Best Poster at Muscle Health Awareness Day (2015)</i> 	Graduated
Sofhia Ramos	09/14-07/19
<ul style="list-style-type: none"> <i>Ontario Graduate Scholarship (\$15k, x3), Finalist for Ontario Exercise Physiology Student Award (2017, 2018)</i> 	Graduated
Patrick Turnbull	09/14-10/19
<ul style="list-style-type: none"> <i>NSERC CGS-D Alexander Graham Bell Scholarship (\$35k/yr, 3 yrs), Ontario Graduate Scholarship (\$15k), American Society of Biochemistry and Molecular Biology award (2019), American Journal of Physiology Cell</i> 	Graduated

Physiology award (2019)

Mia Ydfors (Co-Advisor), Karolinska Institutet, <u>Stockholm, Sweden.</u>	2011-2019
Advisor: Drs. Jessica Norrbom. 2 nd Co-Advisor: Carl Johan Sundberg	Graduated
Note: M. Ydfors had two maternity leaves.	

MSc Students

Ihtisham Ahmed Rana	09/24-Present
Brooke Morris	
• <i>NSERC CGS-M (\$17.5k), MITACS Accelerate (x2, \$20k total)</i>	09/23-Present
Shahrzad Khajehzadehshoushtar	09/22-08/24
• <i>NSERC CGS-M (\$17.5k), MITACS Accelerate (\$10k)</i>	Graduated
Arshdeep Thuhan (Co-supervisor: Ali Abdul-Sater)	09/21-08/22
• <i>Ontario Graduate Scholarship (\$15k), MITACS Accelerate (\$10k)</i>	Graduated
Madison Garibotti (Co-supervisor: Ali Abdul-Sater)	09/21-08/22
• <i>Muscle Health Research Centre Fellowship (\$1,000), MITACS Accelerate (\$10k)</i>	Graduated
Sarah Mosely (Co-Supervisor; Primary supervisor: Arthur Cheng)	09/19-09/21
	Graduated
Luca Delfinis	09/18-08/20
• <i>NSERC CGS-M (\$17.5k)</i>	Graduated
Meghan Hughes	09/13-06/15
• <i>CIHR CGS-M (\$21k), Ontario Graduate Scholarship (\$15k)</i>	Graduated
Ali Nejabatbakhsh	09/13-05/16
	Graduated

Undergraduate Students

Ashnaa Narumathan, 4 th year research project student	09/24-04/25
Ihtisham Ahmed, summer research assistant	05/24-08/24
• <i>NSERC USRA Award</i>	
Ihtisham Ahmed, 4 th year research project student	05/23-12/23
Carmen Haines, 4 th year research project student	05/23-12/23
Amireza Goli, summer research assistant	05/23-08/23
• <i>NSERC USRA Award</i>	
• <i>Robert J. Tiffin student leadership award</i>	
Parsa Vahabishekarloo, 4 th year research project student	09/22-04/23
Ramsha Mansuri, 4 th year research project student	09/22-04/23
Amireza Goli, 4 th year research project student	09/22-04/23
Shahrzad Khajehzadehshoushtar, 4 th year research project student	09/21-04/22
Reagan Reid, 4 th year honours research project student	09/21-04/22
Lauren Grant-Assor, 4 th year honours research project student	05/21-08/21
Yeji Seo, summer research assistant	05/21-08/21
Sara Dibenedetto, volunteer, 4th year honours research project student	07/19-04/20
Michela Margiotta, volunteer	05/19-03/20
Ali Dehghani, summer research assistant	05/19-08/19
• <i>NSERC USRA Award</i>	
• <i>Finalist for 2019 Summer Undergraduate Research Conference for USRA</i>	
Ali Dehghani, 4th year honours research project student	09/18-04/19
Christina Amaral, student research assistant	07/18-04/19
Luca Delfinis, summer research assistant	07/18-08/18

Ali Dehghani, summer research assistant	05/18-08/18
• <i>NSERC USRA Award</i>	
Ali Dehghani, 4 th year honours research project student	01/18-04/18
Peyman Tadi, summer research assistant	05/17-08/17
Ryan Elliott, 4 th year honours research project student (Graduated)	09/16-04/17
Alessandro Volpe, 4 th year honours research project student (Graduated)	09/16-04/17
• <i>Recipient of the Faculty of Health Gold Medal Award for Academic Excellence</i>	
• <i>Recipient of the Faculty of Health Silver Medal for Academic Merit</i>	
Mahshad Kolahdouzan, 4 th year honours research project student (Graduated)	09/15-04/16
• <i>Recipient of the Faculty of Health Silver Medal Award for Academic Merit</i>	
Maansi Malhotra, 4 th year honours research project student – Kinesiology(Graduated)	01/16-04/16
*Maansi Malhotra, 4 th year honours research project student – Biology (Graduated)	09/14-04/15
Houman Tahmasebi, summer research assistant (Graduated)	05/14-08/15
• <i>NSERC USRA Award</i>	
Michal Shenis, summer research assistant (Graduated)	05/14-08/14
• <i>NSERC USRA Award</i>	
Albert Rocha, 4 th year honours research project student (Graduated)	06/14-12/14
Meghan Hughes, summer research assistant (Graduated)	05/13-08/13
Alisa Fitsova, 4 th year honours research project student (Graduated)	09/13-04/14
Mariam Kodsy, 4 th year honours research project student (Graduated)	01/14-04/14
Emmanuel Ebrahim, 4 th year laboratory assistant (Graduated)	01/13-05/13
Mohammed Ali, 4 th year honours research project student (Graduated)	01/13-04/13
Monica Monchis, 4 th year honours research project student (Graduated)	01/13-04/13
Tanya Podilchak, 4 th year honours research project student (Graduated)	01/13-04/13
*Co-supervised with Dr. R. Tsushima, Dept. Biology, York University.	
**Advisor while being supervised by Dr. S. Krylov, Dept. Chemistry, York University	

Research Technician

Shahrzad Khajehzadehshoushtar, Research Assistant	09/24-Present
Arshdeep Thuan, Research Assistant	01/24-Present
Shahrzad Khajehzadehshoushtar, Research Assistant	05/22-08/22
Arshdeep Thuan, Research Assistant	05/21-09/21
Madison Garibotti, Research Assistant	05/21-09/21
Irena Rebalka, PhD, Research Assistant	03/21-01/22
Laura Castellani, PhD, Research Assistant	08/20-12/20
Sara Dibenedetto, BSc, Research Assistant	07/20-04/21
Meghan Hughes, PhD, Research Assistant	09/19-12/19
Ali Dehghani, BSc, Research Assistant	09/19-03/20
Peyman Tadi, BSc, Research Assistant	05/18-05/19
Trevor Teich, MSc. Research Technician.	01/17-04/17

THESIS COMMITTEES

MSc – Miriam Zerrouk, Kinesiology & Health Science, York University. Advisor: Dr. O. Adegoke	2024-present
MSc – Jasika Bashal, Kinesiology & Health Science, York University. Advisor: Dr. A Abdul Sater	2024-present

MSc – Laura Nicolucci, Kinesiology & Health Science, York University. Advisor: Dr. A Abdul Sater	2024-present
PhD – Neushaw Moradi, Kinesiology & Health Science, York University. Advisor: Dr. D. Hood	2024-present
MSc – Luke Flewwelling, Kinesiology & Health Science, York University. Advisor: Dr. A Cheng	2024-present
MSc – Christian Barakat, Biology, York University. Advisor: Dr. P. Backx	2023-present
PhD – Emily Fraschetti, Kinesiology & Health Science, York University. Advisor: Dr. A Josse	2022-present
MSc – Nathaniel Andrews, Kinesiology & Health Science, York University. Advisor: Dr. A Cheng	2022-2023 Graduated
MSc – Joseph Brown, Kinesiology & Health Science, York University. Advisor: Dr. A Josse	2021-2022 Graduated
MSc – Jonathan Raspy, Kinesiology & Health Science, York University. Advisor: Dr. A Abdul-Sater	2021-2022 Graduated
PhD – Christopher Kargl, Health & Kinesiology, Purdue University, USA Advisor: Dr. T Gavin	2020-2022 Graduated
PhD – Brandon Richards, Kinesiology & Health Science, York University Advisor: Dr. D Hood	2020-2022
MSc – Sara Mosely, Kinesiology & Health Science, York University Advisor: Dr. A Cheng	2020-2021 Graduated
PhD – Mayoorey Murugathanan, Kinesiology & Health Science, York University Advisor: Dr. A Abdul-Sater	2019-2023 Graduated
MSc – Glory Madu, Kinesiology & Health Science, York University Advisor: Dr. O Adegoke	2019-2020 Graduated
MSc – Safoura Zangiabadi, Kinesiology & Health Science, York University Advisor: Dr. A Abdul-Sater	2019-2021 Graduated
MSc – Monica Towadrous, Kinesiology & Health Science, York University Advisor: Dr. M. Connor	2019-2021 Graduated
MSc – Sasha Udehesister, Kinesiology & Health Science, York University Advisor: Dr. D Crawford	2019-2021 Graduated
MSc – Sarah Wheeler, Kinesiology & Health Science, York University Advisor: Dr. D Crawford	2018-2019 Graduated
PhD – Shailee Jani, Kinesiology & Health Science, York University Advisor: Dr. R Ceddia	2018-2023 Graduated
PhD – Ashby Kissoondoyal, Kinesiology & Health Science, York University Advisor: Dr. D Crawford	2017-2021 Graduated
MSc – Caylee Greenberg, Kinesiology & Health Science, York University Advisor: Dr. M Riddell	2017-2018 Graduated
PhD – Debasmita Bhattacharya, Kinesiology & Health Science, York University Advisor: Dr. A Scime	2016-2021 Graduated
PhD – Cynthia Monaco, Dept. of Pathology & Molecular Medicine, McMaster University. Advisor: Dr. T Hawke	2016-2021 Graduated
PhD – Emmanuel Nwadozi, Kinesiology & Health Science, York University Advisor: Dr. T Haas	2015-2020 Graduated
PhD – Diane Kishi, Kinesiology & Health Science, York University Advisor: Dr. R Ceddia	2013-2017 Graduated
PhD - Christopher Theriau , Kinesiology & Health Science, York University	2014-2016

Advisor: Dr. M Connor	Graduated
PhD - Emily Dunford, Kinesiology & Health Science, York University	2013-2016
Advisor: Dr. M Riddell	Graduated
MSc - Debasmita Bhattacharya, Kinesiology & Health Science, York University	2014-2015
Advisor: Dr. A Scime	Graduated
MSc - Abinas Uthayakumar, Kinesiology & Health Science, York University	2014-2016
Advisor: Dr. R Ceddia	Graduated
MSc - Liam Tryon, Kinesiology & Health Science, York University	2012-2014
Advisor: Dr. D Hood	Graduated
PhD - Cassandra Uchida, Kinesiology & Health Science, York University	2013
Advisor: Dr. T Haas	Graduated
MSc - Dessi Zaharieva, Kinesiology & Health Science, York University	2013
Advisor: Dr. M Riddell	Graduated
MSc - Cameron Williams, Kinesiology and Health Studies, Queens University	2012-2013
Advisor: Dr. B Gurd	Graduated

Thesis Defence - Invited examiner external to University

PhD – Elise Thomson, University of Copenhagen, Denmark . Advisor: Dr. J. Ochala	08/2024
PhD – Jared Field, University of Manitoba, Winnipeg, Canada. Advisor: Dr. J. Gordon	05/2024
PhD – Asad Lone, Western University, London, Canada. Advisor: Dr. R. Cumming	11/2023
PhD – Fahmida Jahan, University of Ottawa, Canada. Advisor: Dr. K. Menzies	08/2023
MSc – Emily Ferguson, Queen’s University. Advisor: Dr. C. McGlory	04/2023
MSc – Katerina Scheepstra, Brock University. Advisor: Dr. R. Vandeenboom	04/2023
PhD – Nigel Kurgan, Brock University. Advisor: Dr. P. Klentrou	05/2022
MSc – Winston Kwok, University of Toronto. Advisor: Dr. A. Andreazza	01/2022
PhD – Nicholas Giourmas, Victoria University, Australia . Dr. C. Goodman	11/2021
PhD - Jean-Philippe Leduc-Gaudet. McGill University. Dr. G. Gouspillou	02/2021
MSc – Tom Tripp, University of Calgary. Advisor: Dr. M. MacInnis	12/2020
PhD – Tatiana Wong, The Hospital for Sick Children. Advisor: Dr. R. Cohn	09/2020
MSc – Alison Schweitzer, McMaster University. Advisor: Dr. T. Hawke	06/2020
MSc – Kyle Dumont, Simon Fraser University, Burnaby, Canada. Advisor: Dr. D. Clarke	03/2020
PhD – Nawaz Ahmed, University of Guelph. Advisor: Dr. P. Spagnuolo	10/2019
MSc – Nicholas Preobrazenski, Queen’s University. Advisor: Dr. B. Gurd	09/2019
PhD – Lauren Skelly, McMaster University. Advisor: Dr. M Gibala	08/2019
PhD – Jin Ng, University of Auckland, New Zealand . Advisor: Dr. N. Birch	02/2019
MSc – Thibacg Sivayoganathan, Institute of Medical Science, University of Toronto. Advisor: Dr. M. Jeschke	09/2018
PhD – Han Chow, University of Southern Denmark, Denmark Advisor: Dr. N. Ortenblad	06/2018
PhD – Jill Leckey, Australian Catholic University, Australia Advisor: Dr. J. Hawley	11/2017
PhD – Dan Gamu, University of Waterloo. Advisor: Dr. R. Tupling	10/2017
MSc – Jacob Bonafiglia, Queen’s University. Advisor: Dr. B. Gurd	09/2017
PhD – Chris Hedges, Victoria University, Australia . Advisor: Dr. D. Bishop	07/2017
MSc – Kayla Michelle de Luca Miguez, McGill. Advisor: Dr. R. Hepple	05/2017
PhD - Katarina Marcinko, McMaster University. Advisor: Dr. G. Steinberg	08/2015

MSc - Natalie Trojanowski, Brock University. Advisor: Dr. P. LeBlanc	08/2015
PhD - Martin Jensen, University of Copenhagen, Copenhagen, Denmark Advisor: Dr. F. Dela	12/2014
PhD - Karin Trajcewski, McMaster University. Advisor: Dr. T. Hawke	02/2014
PhD - Daniel Ogborn, McMaster University. Advisor: Dr. M. Tarnopolsky	07/2013
MSc - Brittany Edgett, Queens University. Advisor: Dr. B. Gurd	08/2012

Thesis Defence – Examiner (Internal, arm’s length)

PhD – Daniel Da Eira. Advisor: Dr. R. Ceddia	04/2024
MSc – Aisha Adil. Advisor: Dr. A. Forer	11/2023
MSc – Aisha Abdul-Rahim. Advisor: Dr. D. Crawford	06/2023
MSc – Fahad Answer. Advisor: Dr. R Tsushima	09/2022
PhD – Anna Kotova. Advisor: Dr. G Zoidl	09/2022
MSc – Jennifer Chivers. Advisor: Dr. K Hudak	08/2022
PhD – Cherie Brown. Advisor: Dr. G Zoidl	08/2022
MSc – Winston Kwok. Advisor: Dr. R Kwon	01/2022
PhD – Ashby Kissoondoyal. Advisor: Dr. D. Crawford	08/2021
MSc – Pankaj Puar. Advisor: Dr. R Kwon	08/2021
MSc – Sarah Udhesister. Advisor: Dr. D. Crawford	01/2021
PhD – Ryan Siu. Advisor: Dr. G. Zoidl	11/2020
MSc – Nour Barazi. Advisor: Dr. P. Backx	09/2020
PhD – Chun Chih Chen. Advisor: Dr. S. Kelly	09/2020
PhD – Soma Tribathi. Advisor: Dr. J. McDermott	09/2020
MSc – Vu Hong Loan Nguyen. Advisor: Dr. C. Peng	09/2019
MSc – Sarah Wheeler. Advisor: Dr. D. Crawford	08/2019
PhD – Wonsuk Jahng. Advisor: Dr. G. Sweeney	08/2019
MSc – Karam Dahyaleh. Advisor: Dr. G. Sweeney	08/2019
MSc – Ayaat Hassan. Advisor: Dr. R. Kwong	08/2019
MSc – Ardavan Jafari. Advisor: Dr. A. Abdul-Sater	08/2019
MSc – Tracey Edwards. Advisor: Dr. J. McDermott	04/2019
MSc – Aryan Fazeli. Advisor: Dr. M. Connor	09/2018
PhD – Timothy Gabor. Advisor: Dr. M. Scheid	05/2018
MSc – Shaon Parial. Advisor: Dr. M. Scheid	03/2018
MSc – Pranav Dhakal. Advisor: Dr. C. Bucking	11/2017
PhD – Hyekyoung (Cindy) Sung. Advisor: Dr. G. Sweeney	08/2017
MSc – Michelle Prioriello. Advisor: Dr. G. Sweeney	08/2017
MSc – Vladimir Kodzhahinchev. Advisor: Dr. C. Bucking	12/2016
MSc – Michael Meyerovich. Advisor: Dr. A. Belcastro	12/2016
MSc – Arta Mohasses. Advisor: Dr. R Ceddia	11/2017
MSc – Ali Farazhad. Advisor: Dr. J. McDermott	09/2016
MSc - Rod Taylor. Advisor: Dr. A. Hilliker	05/2015
MSc - Hina Akhter. Advisor: Dr. A. Donini	03/2015
MSc - Anna Troshchynsky. Advisor: Dr. G. Wu	09/2013
MSc - Terry Hawryluk. Advisor: Dr. A. Hilliker	02/2013

Doctoral Comprehensive Exam - Invited examiner external to University

Emilie Binet. Advisor: Dr. M. Gibala, McMaster University.	06/2024
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Amanda Johnson. Advisor: Dr. G. Parise, McMaster University.	05/2024
Eveline Soares Menezes. Advisor: Dr. B. Gurd, Queen's University	07/2021
Jonathan McLeod. Advisor: Dr. S. Phillips, McMaster University	05/2020
Sebastian Jannas. Advisor: Dr. L. Spriet, University of Guelph	04/2015
James Whitfield. Advisor: Dr. L. Spriet, University of Guelph	03/2015
Trisha Scribbans. Advisor: Dr. B. Gurd, Queen's University	09/2013

TEACHING EXPERIENCE

York University – Course Instructor/Director

Human Physiology I (KINE 2011, >1000 students; 2 sections)	2019-present
Course Coordinator: F19 (x2 sections), F20 (x2), F21(x2), F22 (x2), F23	
Course Instructor: F19, F20, F21, F22 (x2), F23	
Graduate course in Redox biology and oxidative stress in health and disease (KAHS 6315, 3x). W15, F16, F19, F21, F23	2015-present
Exercise therapy for chronic disease: from cell to whole body (KINE 4900, 8x)	2013-2018
F13, S14, F14, F15, W16, W17, F17, W18	
Introduction to Fitness and Health (KINE 1020, x2, >800 students)	2016-2018
F16/W17 (Muscle Physiology component), W18	
Fitness consulting and personal fitness training (KINE 3400, 5x)	2012-2016
F12, W13, W14, W15, W16	

Note: Teaching exemption 07/18-06/19 during sabbatical

University of Guelph – Course Instructor/Lecturer

4 th year Cardio-Respiratory Physiology (HK*4550)	2008
3 rd year Applied Human Biology (HK*3600)	2006

PROFESSIONAL ACTIVITIES

Journal Editor

• Reviewing Editor for <i>American Journal of Physiology: Cell Physiology</i>	2018-present
• Reviewing Editor for <i>American Journal of Physiology: Endocrinology and Metabolism</i>	2017-present
• Reviewing Editor for <i>Journal of Applied Physiology</i>	2019-2023
• Associate Editor of <i>Applied Physiology, Nutrition and Metabolism</i>	2016-2023

Grant Reviewer

• CIHR, Member, Movement & Exercise committee	2022-present
• CIHR, College of Reviewers	2017-present
• NSERC Discovery, peer reviewer	2012-present
• Muscular Dystrophy Canada	2023
• CIHR, Peer Reviewer, MOV committee	2022
• Sepsis Canada	2022
• The French Muscular Dystrophy Association (AFM Telethon)	2021-present
• National Science Center Poland	2020
• Barth Syndrome Foundation	2019, 2022
• Ontario Research Fund	2019
• CIHR Fellowship	2019

- Canada Research Chair 2018
- CIHR INMD Planning and Dissemination Grants 2016-17
- Muscular Dystrophy UK 2017
- Victoria University, Australia Research Council Discovery Grant 2017
- Canadian Foundation for Innovation: John R. Evans Leaders Fund 2016
- Canadian Glycomics Network 2016
- Belgium – Fonds de la Recherche Scientifique 2015-present
- The Wellcome Trust/DBT India Alliance – Fellowship 2015
- OMAFRA (Ontario Ministry of Agriculture, Food and Rural Affairs; 2015
- Nova Scotia Health Research Foundation 2014
- Chesley Research Fund (Atlantic Canada) 2012
- The Netherlands Organization for Health Research and Development 2012

Workshop Leader for trainee development: Invited International Course/Workshop Leader

- Neuromuscular Disease For Canada (NMD4C) Summer School instructor 05/2024
- Mito2i, Mitochondrial Technologies workshop leader, Toronto, ON 04/2024
Canada
- Mito2i, Mitochondrial Technologies workshop leader, Toronto, ON 04/2023
Canada
- Saltin International Graduate Course in Clinical & Exercise Physiology 10/2022
Niagara-on-the-Lake, ON, **Canada**
- Mito2i, Mitochondrial Technologies workshop leader, Toronto, ON 12/2022
Canada
- Mito2i, Mitochondrial Technologies workshop leader, Toronto, ON 08/2022
Canada
- Mito2i, Mitochondrial Technologies workshop leader, Toronto, ON 04/2022
Canada
- Mito2i, Mitochondrial Technologies workshop leader, Toronto, ON 11/2021
Canada
- Saltin International Graduate Course in Clinical & Exercise Physiology 09/2018
Collingwood, ON, **Canada**
- Saltin International Graduate Course in Clinical & Exercise Physiology 09/2017
Ottawa, ON, **Canada**
- Saltin International Graduate Course in Clinical & Exercise Physiology 10/2015
Toronto, ON, **Canada**
- Mitochondrial Physiology Summer School, Faculty of Health and Medical 08/2015
Sciences, University of Copenhagen, **Denmark**
- Mitochondrial Physiology 2014 – 10th MiP Conference. Mitochondrial 09/2014
physiology – methods, concepts and biomedical perspectives. Obergurgl,
Austria

Outreach Activities

- Invited Guest Speaker, Canadian Society for Exercise Physiology Student 04/2023
Committee Journal Club and the University of Waterloo, ‘Muscle weakness
precedes atrophy during cancer cachexia and is linked to muscle-specific
mitochondrial stress’
- Invited student engagement lecture for a ‘Physiology of Aging’ graduate 03/2023
course, University of Regina

- Invited student engagement lecture for a ‘Physiology of Aging’ graduate course, University of Regina 04/2022
- Panel member, Undergraduate Health Research Exploration. Mentorship for Undergraduate students engaging in research activities. York University. 11/2021
- Panel member, Canadian Society for Exercise Physiology (CSEP) mentorship for CSEP graduate students. 10/2021
- Panel member, Canadian Society for Exercise Physiology (CSEP) mentorship for CSEP graduate students. 10/2020
- Invited public lecture by Rotary Club, Brighton, ON, Canada: “Healthy Muscles, Healthy bodies: You are what you eat, and you are what you do” 05/2020
- Invited editorial by Dskate Hockey (dskatehockey.com) on skeletal muscle health in Type 1 Diabetes and the implications for exercise management <https://dskatehockey.com/en/dskate-u/education/physical-activity-and-diabetes/> 05/2018
- Public education: Muscle and exercise: from normal function to disease. "Musculoskeletal Health Education Forum, Brock University, St. Catharines, ON, Canada 08/2017
- Panel member, Canadian Society for Exercise Physiology (CSEP) Student Committee, CSEP Annual General Meeting, Victoria, Canada, 2016. ‘If You Knew Then What You Know Now: Advice for graduate students pursuing academia’ 10/2016
- Panel member, Career Day for graduate students, College of Biological Sciences, University of Guelph, Guelph, ON, Canada 06/2016
- Hosting multiple high school outreach programs in lab 2004-8
- In-service for Toronto Public Health nurses; ‘The physiology of key Health-Canada messaging’. 10/2006

Consultant

- Astellas Inc 2023-2024
- Member, PTC Therapeutics Duchenne Muscular Dystrophy (DMD) Digital Opinion Leader Virtual Advisory Board 01/2023

Conference Organizer

- Organizer, Canadian Oxidative Stress Consortium International Meeting 05/2025
- Muscle Health Awareness Day 14 (MHAD14) 05/2024
 - Muscle Health Research Centre, York University
- Co-organizer, Ontario Exercise Physiology Annual Winter Meeting: Kingston, ON, Canada (200+ attendees) 2022-2023
 - This conference is designed to develop trainee presentation skills. Only trainees present while faculty provided feedback.
- Executive Organizing Planning Committee, International Biochemistry of Exercise Conference (IBEC), Toronto, ON, Canada 05/2022
- Executive Organizing Committee, MITO2019 – MitoNET and MitoCanada Joint meeting on mitochondrial disease, Toronto, ON, Canada 09/2019
- Executive Organizing Committee, 10th Meeting - Canadian Oxidative Stress Consortium, Edmonton, AB, Canada 05/2018
- Executive Organizing Committee, 9th Meeting - Canadian Oxidative Stress Consortium, Guelph, ON, Canada 06/2015
 - Chair, Metabolism and Oxidative Stress symposium, fund-raiser (\$3k)

- International Programme Committee, Mitochondrial Physiology, MiP2014 – 10th MiP Conference: Obergurgl, Tyrol, Austria 09/2014
- Co-organizer, Ontario Exercise Physiology Annual Winter Meeting: Barrie, ON, Canada (112 attendees) 02/2014
 - This conference was designed to develop trainee presentation skills. Only trainees presented while faculty provided feedback.

Conference Symposia Chair

- Physiology and Pathology of Muscle and Bone, Muscle Health Awareness Day, York University, Toronto, Canada 05/2023
- Bioenergetics and Metabolism, Advances in Skeletal Muscle Health and Disease, Gainesville, FL, USA 03/2023
- New advances in understanding mitochondrial adaptations to exercise, Canadian Society for Exercise, Moncton, NB, Canada (Co-Chair) 11/2022
- Muscle Disease and Exercise Adaptation, Muscle Health Awareness Day, York University, Toronto, Canada 05/2021
- Exercise and mitochondrial function, Canadian Society for Exercise Physiology, Virtual Annual General Meeting, Canada 10/2020
- Exercise oncology advances in exercise therapy and rehabilitation for cancer patients and survivors, Canadian Society for Exercise Physiology, Kelowna, BC, Canada 11/2019
- Emerging Roles of the Cytoskeleton in Striated Muscle, Experimental Biology, Orlando, FL, USA 04/2019
- Metabolism and Oxidative Stress, 9th Meeting - Canadian Oxidative Stress Consortium, Guelph, ON, Canada 06/2016
- Muscle Health Awareness Day, York University, Toronto, Canada (x2) 2013, 2015
- European College of Sport Science, Brugge **Belgium** (x2) 07/2012
- 15th International Biochemistry of Exercise Conference, Stockholm, **Sweden** 06/2012

Scientific Journals Reviewer (2-3/month)

- Example themes: Science Translational Medicine, Nature Communications, Communications Biology, Free Radical Biology and Medicine, Neuromuscular Disorders, Diabetes, The Journal of Physiology, American Journal of Physiology, Journal of Applied Physiology, Biology of Sex Differences, Advances in Physiology Education, other.

External professional reviews

- Application for Associate Professor promotion (University of Alberta) 2021
- Application for Professor promotion (Brock University, Canada) 2018
- Application for Professor promotion (Carleton University, Canada) 2017

PROFESSIONAL AFFILIATIONS

The Physiological Society (UK), member	2019-Present
American Physiological Society, member	2016-Present
Canadian Oxidative Stress Consortium, member	2014-Present
Canadian Society for Exercise Physiology, member	2004-Present
American College of Sports Medicine, member	2003-2010

INVITED PRESENTATIONS: 10 countries

NATIONAL AND INTERNATIONAL SYMPOSIA

1. Muscle heterogeneity in pre-clinical models of myopathies: considerations for experimental design and interpretations
 - Neuromuscular Disease For Canada (NMD4C) Summer School, McGill University, Montreal, **CANADA** (May 27th, 2024)
2. Pre-clinical therapy development for Duchenne muscular dystrophy
 - August Krogh Club Symposium, Crossroads in metabolism: Talents and Trailblazers, University of Copenhagen, **DENMARK** (May 24th, 2024)
3. Training in mitochondrial technologies: Assessment and Interpretation
 - MITO2024 Conference, University of Toronto, Toronto, **CANADA** (May 6, 2024)
4. Mitochondrial stress responses in Duchenne muscular dystrophy and cancer cachexia.
 - Padua Days on Muscle and Mobility Medicine, Pauda, **ITALY** (February 28th, 2024).
5. Mitochondrial stress responses in cancer cachexia
 - Society of Sarcopenia, Cachexia and Wasting Disorders, ‘New Mechanisms of Cancer Cachexia’ 16th International Conference, Stockholm, **SWEDEN** (June 18th, 2023; invited May 2023; deferred to PhD student due to schedule conflict)
6. Targeting mitochondrial cardiolipin to preserve bioenergetics and muscle health in Duchenne muscular dystrophy
 - Canadian Oxidative Stress Consortium (COSC), Montreal, **CANADA** (May 12th, 2023)
7. The study of mitochondrial function in clinical sciences
 - Saltin International Graduate Course in Clinical & Exercise Physiology, Niagara-on-the-Lake, ON, **CANADA** (Oct. 2022)
8. Training in mitochondrial technologies: Assessment and Interpretation
 - University of Toronto, Toronto, **CANADA** (December 2022)
9. Training in mitochondrial technologies: Assessment and Interpretation
 - University of Toronto, Toronto, **CANADA** (August 2022)
10. Training in mitochondrial technologies: Assessment and Interpretation
 - MITO2022 Conference, University of Toronto, Toronto, **CANADA** (April 2022)
11. Training in mitochondrial technologies: Assessment and Interpretation
 - MITO2021 Conference, University of Toronto, Toronto, **CANADA** (November 2021)
12. Exploring the potential for mitochondrial-therapeutics to treat muscle weakness in Duchenne muscular dystrophy
 - August Krogh Club, Sponsored by Novo Nordisk Foundation, University of Copenhagen, Copenhagen, **DENMARK** (March 12, 2021)
13. Mitochondrial creatine metabolism: a role for creatine beyond the cytoplasm
 - Canadian Society for Exercise Physiology (CSEP), Virtual AGM, **CANADA** (Oct. 2020)
14. Striated muscle mitochondrial bioenergetics in health and disease

- Ontario Exercise Physiology Annual Winter Meeting, Barrie, ON, **CANADA** (Feb. 2020)
 - **KEYNOTE SPEAKER**
15. The variable mitochondrial responses to exercise in diabetes
 - American Diabetes Association, San Francisco, **USA** (June 2019)
 16. The mitochondrial-targeted peptide SBT-20 improves Duchenne muscular dystrophy pathophysiology in diaphragm and quadriceps muscle. Co-presented with Dr. Meghan Hughes.
 - Knowledge User: Stealth Biotherapeutics Inc., Newton, MA, **USA** (April 2019)
 17. Targeting mitochondrial bioenergetics to treat muscle weakness in Duchenne muscular dystrophy
 - Advances in Skeletal Muscle Biology in Health and Disease, Gainesville, Florida, **USA** (March 2019)
 18. Targeting mitochondria to treat muscle weakness in Duchenne Muscular Dystrophy
 - Mitochondrial Function, Cell Metabolism & Disease Symposium, University of Toronto, **CANADA** (Nov. 2018)
 19. The role of mitochondrial dysfunction in Duchenne Muscular Dystrophy
 - Canadian Society for Exercise Physiology Annual Meeting, Niagara Falls, ON, **CANADA** (Nov. 2018)
 20. Targeting mitochondria to improve mobility: can a pill improve muscle function?
 - Saltin International Graduate Course in Clinical & Exercise Physiology, Collingwood, ON, **CANADA** (Sept. 2018)
 21. Exercise and the regulation of mitochondrial bioenergetics
 - Saltin International Graduate Course in Clinical & Exercise Physiology, Ottawa, ON, **CANADA** (Sept. 2017)
 22. A potential role for mitochondrial dysfunction in muscle wasting during Duchenne muscular dystrophy: Examining the efficacy of SBT-20
 - Knowledge User: Stealth Biotherapeutics Inc., Newton, MA, **USA** (Aug. 2017)
 23. Muscle and exercise: from normal function to disease
 - Public: Musculoskeletal Health Education Forum, Brock University, St. Catharines, ON, **CANADA** (Aug. 2017)
 24. Evidence that impaired mitochondrial bioenergetics in Type 1 Diabetic human skeletal muscle is worse in poorly controlled glycaemia
 - Canadian Society for Exercise Physiology Annual Meeting, Victoria, BC, **CANADA** (October 2016)
 25. Mitochondrial bioenergetics in muscle: top-down regulation
 - Saltin International Graduate Course in Clinical & Exercise Physiology, Toronto, ON, **CANADA** (Oct. 2015)
 26. Regulation of mitochondrial ADP sensitivity
 - Mitochondrial Physiology Summer School, Faculty of Health and Medical Sciences, University of Copenhagen, **DENMARK** (Aug. 2015)
 27. Evaluation of critical experimental parameters for assessing mitochondrial bioenergetics in permeabilized myofibres
 - Mitochondrial Physiology 2014 – 10th MiP Conference. Mitochondrial physiology – methods,

concepts and biomedical perspectives, Obergurgl, **AUSTRIA** (Sept. 2014)

28. Altered mitochondrial bioenergetics and cellular redox conditions link high fat diets to the etiology of skeletal muscle insulin resistance
 - 8th Annual Meeting of the Canadian Oxidative Stress Consortium, Carleton University, Ottawa, **ON CANADA** (June 2014)
29. A Good Science Day
 - Ontario Exercise Physiology Annual Winter Meeting, Barrie, ON, **CANADA** (Jan. 2013)
 - **KEYNOTE SPEAKER**
30. Molecular mechanisms underpinning rapid mitochondrial adaptations to HIIT
 - 17th Annual Congress of the European College of Sport Science, Brugge, **BELGIUM** (July 2012)
31. Mitochondrial respiratory sensitivity to ADP in human muscle increases post-exercise
 - 15th International Biochemistry of Exercise Conference, Stockholm, **SWEDEN** (June 2012)
 - **FEATURED SPEAKER**

UNIVERSITY SEMINAR PRESENTATIONS

32. Unexpected adaptative responses in mitochondria and muscle force during cancer cachexia
 - University of Kansas Comprehensive Cancer Center, *The Kansas University Medical Center*, Kansas City, Kansas, **USA** (April 23rd, 2024)
33. Muscle weakness and mitochondrial stress precedes cachexia during cancer in pre-clinical models
 - Myology Institute, *University of Florida*, Gainesville, FL, **USA** (February 7th, 2024)
34. Unexpected adaptative responses in mitochondria and muscle force during cancer cachexia
 - Holden Comprehensive Cancer Center, *University of Iowa*, Iowa City, IA, **USA** (October 11, 2023)
35. Unexpected adaptative responses in mitochondria and muscle force during cancer cachexia
 - Department of Pathology, *University of Colorado Anschutz Medical Campus*, Aurora, CO, **USA** (September 13, 2023)
36. Unexpected adaptative responses in mitochondria and muscle force during cancer cachexia
 - School of Kinesiology, *The University of British Columbia*, Vancouver, BC, **CANADA** (March 30th, 2023)
37. Surprising muscle-specific resiliency during cancer cachexia: do mitochondrial stress responses slow the decline?
 - Centre for Metabolism, Obesity and Diabetes Research, *McMaster University*, Hamilton, ON, **CANADA** (February 16th, 2023)
38. Fighting back: unexpected adaptive responses in muscle during cancer-induced cachexia
 - Medical Sciences Seminar, *Northern Ontario School of Medicine*, Sudbury, ON, **CANADA** (February 14th, 2023)
39. Pre-clinical development of mitochondrial therapeutics for treating muscle weakness in Duchenne muscular dystrophy

- Centre for Research on Biomolecular Interactions (CRBI), *York University*, Toronto, ON, **CANADA** (January 2021)
40. Can correcting mitochondrial dysfunction treat muscle weakness in Duchenne muscular dystrophy?
- School of Kinesiology and Health Studies, *Queen's University*, Kingston, ON, **CANADA** (March 2020)
41. Can mitochondrial enhancement therapies treat muscle weakness in Duchenne muscular dystrophy?
- Department of Kinesiology & Physical Education, *Wilfrid Laurier University*, Waterloo, ON, **CANADA** (Nov. 2019)
42. Exploring the potential of mitochondrial therapeutics to treat muscle weakness in Duchenne muscular dystrophy
- Department of Health and Exercise Science, *Colorado State University*, Boulder, CO, **USA** (Sept. 2019)
43. The emergence of mitochondrial-targeted therapeutics to treat muscle weakness disorders
- Department of Kinesiology, *McMaster University*, Hamilton, ON, **CANADA** (Dec. 2018).
44. Mitochondrial dysfunction as a potential target for therapy to treat muscle weakness in Duchenne Muscular Dystrophy
- Department of Sport Science and Clinical Biomechanics, *University of Southern Denmark*, Odense, **DENMARK** (June 2018).
45. Exploring novel mitochondrial-targeted therapeutics to treat muscle weakness in Duchenne muscular dystrophy
- Faculty of Applied Health Sciences, *Brock University*, St. Catharines, ON, **CANADA** (April 2017).
46. Mitochondrial bioenergetics in muscular dystrophy: is there potential for mitochondrial therapeutics to treat muscle weakness?
- Department of Physiology and Pharmacology, Schulich School of Medicine & Dentistry, *Western University*, London, ON, **CANADA** (April 2017)
47. Muscle Dysfunction in Chronic Disease
- College of Biological Science Alumni Associations, University of Guelph, Guelph, ON, **CANADA** (March 2017)
48. A potential role for mitochondrial dysfunction in muscle wasting during Duchenne muscular dystrophy
- Centre for Translational Musculoskeletal Research, School of Health and Rehabilitation Sciences, *Indiana University-Purdue University Indianapolis*, Indianapolis, Indiana, **USA** (Feb. 2017)
49. Do impaired mitochondrial bioenergetics contribute to muscle wasting in Duchenne muscular dystrophy?
- Department of Molecular and Integrative Physiology, School of Medicine, *Kansas University Medical Center*, Kansas City, Kansas, **USA** (August 2016)
50. Reactive oxygen species in health and disease: toxins or essential signals?
- EMphasis on Health symposia at McMaster University, *McMaster University*, Hamilton, ON, **CANADA** (May 2016).
51. Reactive oxygen species: toxic byproducts or a novel paradigm of metabolic regulation?

- Department of Human Health and Nutritional Sciences, *University of Guelph*, Guelph, ON, **CANADA** (Dec. 2015)
52. The effects of acute and chronic high-intensity interval exercise on mitochondrial respiratory sensitivity to ADP in human skeletal muscle
- Xlab – Centre for Healthy Aging, Faculty of Health and Medical Sciences, University of Copenhagen, **DENMARK** (Dec. 2014)
53. Evidence that mitochondrial ADP/ATP transport is a critical regulator of energy homeostasis during muscle contraction
- Department of Biology, *York University*, Toronto, ON **CANADA** (March 2014).
54. A new perspective on how nutrition and physical activity regulate insulin sensitivity: a role for redox biology
- Department of Kinesiology, *University at Waterloo*, Waterloo, ON **CANADA** (Jan. 2014).
55. A single high fat meal induces insulin resistance in physically inactive humans
- Department of Exercise and Nutrition Sciences, *University at Buffalo SUNY*, Buffalo, NY, **USA** (March 2013).
56. Evidence that insulin sensitivity is acutely regulated by diet and physical inactivity through cellular redox signaling
- Muscle Health Research Centre, Fall Colloquium, *York University*, Toronto, ON, **CANADA** (Dec. 2012)
57. Insulin sensitivity is modulated acutely by diet and physical inactivity: Evidence that metabolic control is regulated through redox biology
- Center for Sport Studies, *University College Dublin*, Dublin, **IRELAND** (Oct. 2012).
58. You are what you eat and you are what you do: Novel integrations of muscle bioenergetics and metabolic health
- School of Kinesiology and Health Studies, *Queen's University*, Kingston, ON, **CANADA** (Aug. 2012).
59. Regulation of muscle mitochondrial adaptations to exercise training: Current models and potential applications
- Department of Human Kinetics, *St. Francis Xavier University*, Antigonish, Nova Scotia, **CANADA** (Aug. 2012)
60. Lessons from time-course study designs: unique patterns in the transcriptional regulation of mitochondrial biogenesis during exercise training
- Faculty of Human Movement Sciences, Research Institute MOVE and VU Medical Centre, *Vrije Universiteit Amsterdam*, **THE NETHERLANDS** (July 2012)
61. The effects of contraction on ADP stimulated respiratory kinetics in permeabilized skeletal myofibres
- Faculte de Pharmacie, INSERM, *Université Paris Sud*, **FRANCE** (June 2012)
62. Integrating cellular bioenergetics and redox biology with whole body metabolic health
- Department of Kinesiology and Community Health, *University of Illinois at Urbana-Champaign*, IL, **USA** (April 2012)
63. You are what you eat and you are what you do: Novel integrations of muscle bioenergetics and metabolic health

- Department of Human Health and Nutritional Sciences, **University of Guelph**, Guelph, ON, CANADA (Feb. 2012)
64. Integrating muscle energy homeostasis with human metabolic health and fitness
- Department of Kinesiology, **York University**, Toronto, ON, CANADA (Jan. 2012)
65. Exercise training stimulates distinct patterns of mRNA and protein expression in human muscle
- Department of Physiology and Pharmacology, **Karolinska Institutet**, Stockholm, SWEDEN (Nov. 2010)
66. How is mitochondrial biogenesis regulated during exercise training in humans?
- Knowledge User: **Swedish Olympic Committee (SOK)**, Stockholm, SWEDEN (Nov. 2010)
67. The impact of physical activity and nutrition on mitochondrial function
- Department of Sport Studies, **University of Stirling**, Stirling, SCOTLAND, UK (June 2010)
68. High intensity interval training (HIIT) is a powerful stimulus to induce mitochondrial and metabolic changes in human skeletal muscle
- Department of Human Health and Nutritional Sciences, **University of Guelph**, Guelph, ON, CANADA (Jan. 2008)
69. Regulation of mitochondrial and metabolic changes in human skeletal muscle following high intensity interval training (HIIT)
- Department of Exercise and Sport Science, **East Carolina University**, Greenville, NC, USA (Sept. 2007)

PUBLICATIONS (refereed journals; **trainees are bold**). *refers to equal contribution by authors.

1. Tsitkanou S, Morena da Silva F, Cabrera AR, Schrems ER, Muhyudin R, Koopmans P, Khadgi S, Lim S, **Delfinis LJ**, Washington TA, Murach KA, Perry CGR, Green NP. Mitochondrial antioxidant SkQ1 attenuates C26 cancer-induced muscle wasting in males and improves muscle contractility in female tumor-bearing mice. *Am J Physiol Cell Physiol*, In Press, Sept 30, 2024.
2. **Hughes MC, Ramos SV, Brahmabhatt A, Turnbull PC, Polidovitch NN, Garibotti MC**, Schlattner U, Hawke TJ, Simpson JA, Backx PH, Perry CGR. Mitohormesis during advanced stages of Duchenne muscular dystrophy reveals a redox-sensitive creatine pathway that can be enhanced by the mitochondrial-targeting peptide SBT-20. *Redox Biology*, 2024 Aug 20; 76: 103319.
3. **Gandhi S**, Sweeney HL, Hart CC, Han R, Perry CGR. Cardiomyopathy in Duchenne muscular dystrophy and the potential for mitochondrial therapeutics to improve treatment response. *Cells*, 2024 July 9; 13(14):1168.
 - Invited Review
4. **Delfinis LJ**, Ogilvie LM, **Khajehzadehshoushtar S, Gandhi S, Garibotti MC, Thuhan AK**, Matuszewska K, Pereira M, Jones 3rd RG, Cheng AJ, Hawke TJ, Greene NP, Murach KA, Simpson JA, Petrik J, Perry CGR. Muscle weakness and mitochondrial stress occur before severe metastasis in a novel mouse model of ovarian cancer cachexia. *Mol Metab*, 2024 Aug;86:101976.
5. **Gandhi S**, Sweeney G, Perry CGR. Recent advances in pre-clinical therapy development of adiponectin receptor agonist therapies in Duchenne muscular dystrophy. *Biomedicines*, 2024 June 25; 12(7):1407.

- Invited Review

- Gottlieb D, Abushamat LA, Nadeau KJ, Regensteiner JG, Reusch JEB, Tommerdahl KL, Rice J, Knaub LA, Monaco CMF, Hawke TJ, Perry CGR, Cree-Green M, Schauer IE. Muscle mitochondrial function is impaired in adults with type 1 diabetes. *J Diabetes Complications*, 2024 Aug; 38(8):108798.
- Ogilvie LM, **Delfinis LJ**, Coyle-Asbil B, Vudatha V, Alshamali R, Garlisi B, Pereira M, Matuszewska K, **Garibotti MC**, **Gandhi S**, Brunt KR, Wood GA, Trevino JG, Perry CGR, Petrik J. Cardiac atrophy, dysfunction, and metabolic impairments: a cancer-induced cardiomyopathy phenotype. *Am J Pathol*, 2024 Jul 18:S0002-9440(24)00241-4.
- Ferguson EJ, Bureau J, Stokes T, Nyman D, Seigel J, **Gandhi S**, **Delfinis LJ**, Gurd BJ, Perry CGR, McGlory C. Quantifying variability associated with high-resolution respirometry in human permeabilized skeletal muscle fibres. *Advanced Exercise and Health Science*, Accepted May 30, 2024.
- Rebalka IA, Noguchi KS, Bulyovsky KR, Badour MI, Juracic ES, Barrett K, **Brahmbhatt A**, Al-Khazraji B, Punthakee Z, Perry CGR, Kumbhare DA, MacDonald MJ, Hawke TJ. Targeting skeletal muscle health with exercise in people with type 1 diabetes: a protocol for HOMET1D, a prospective observational trial with matched controls. *PLoS One*, 2024 May 22; 19(5):e0303448.
- Martin G, Al-Sajee D, Gingrich M, Chattha R, Ackan M, Monaco C, **Hughes MC**, Perry CGR, Rebalka I, Tarnopolsky M, Hawke TJ. Skeletal muscle mitochondrial morphology negatively affected in mice lacking Xin. *Biochem Cell Biol*, 2024 June 6 *In Press*
- Bellissimo CA**, **Gandhi S**, **Castellani LN**, Murugathasan M, **Delfinis LJ**, **Thuhan A**, **Garibotti MC**, **Seo Y**, Rebalka IA, Hsu HH, Sweeney G, Hawke TJ, Abdul-Sater AA, Perry CGR. The slow-release adiponectin analogue ALY688-SR modifies early-stage disease development in the D2.mdx mouse model of Duchenne muscular dystrophy. *Am J Physiol Cell Physiol*, 2024 April 1, 326(4): C1011-1026.
 - Editor's highlight for distinction in scholarship in *APS Select*
<https://journals.physiology.org/apsselect>
- Miner SES, McCarthy MC, Ardern CI, Perry CGR, Toleva O, Nield LE, Manlhiot C, Cantor WJ. The relationships between acetylcholine-induced chest pain, objective measures of coronary vascular function and symptom status. 2023 Aug 31;10: 1217731, *Front Cardiovasc Med*.
- Bellissimo CA**, **Castellani LN**, Finch MS, Murugathasan M, **Gandhi S**, Sweeney G, Abdul-Sater AA, MacPherson REK, Perry CGR. Memory impairment in the D2.mdx mouse model of Duchenne muscular dystrophy is prevented by the adiponectin receptor agonist ALY688. *Experimental Physiology*, 2023 Sept; 108(9):1108-1117. PMID: 37415288.
- Garibotti MC**, Perry CGR. Strength athletes and mitochondria: It's about 'time'. *J Physiol*, 2023; 2753-2754. PMID: 37306149.

- Invited Perspective

- Brown J, Perry CGR, Prior T, Phillips SM, Skelly LE, Josse AR. Differential plasma branched-chain amino acid responses following the consumption of Greek-style yogurt and skimmed milk. *Appl Physiol Nutr Metab*, 2023 Jul 1; 48(7):544-549. PMID: 369859535
- Bellissimo CA**, **Delfinis LJ**, **Hughes MC**, **Turnbull PC**, **Gandhi S**, **DiBenedetto SN**, Rahman FA, **Tadi P**, **Amaral C**, **Dehghani A**, Cogley JN, Quadrilatero J, Schlattner U, Perry CGR.

Mitochondrial creatine sensitivity is lost in the D2.mdx model of Duchenne muscular dystrophy and rescued by the mitochondrial-enhancing compound Olesoxime. *Am J Physiol Cell Physiol*, 2023 May 1; 324(5):C1141-C1157. PMID: 36689672

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ABSTRACTS AND STUDENT CONFERENCE PRESENTATIONS (trainees are bold)

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3. **Gandhi S, Delfinis LJ, Bhatt PD, Garibotti MC, Bellissimo CA, Goli AN, Morris BA, Brahmhatt AN, Castellani LN**, Yakobov S, Backx PH, Edgett BA, Simpson JA, Sweeney G, Hsu HH, Perry CGR. Robust right ventricular fibrosis in a mouse model of Duchenne muscular dystrophy is prevented by the anti-inflammatory adiponectin receptor agonist ALY688. *Ontario Exercise Physiology Conference* (June 2024), Hamilton, Canada, and *Muscle Health Awareness Day 15* (May 2024), Toronto, Canada.
 - *Best Presentation award (Journal of Physiology PhD Graduate Student Award; Ontario Exercise Physiology Conference)
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 - *Applied Physiology Nutrition and Metabolism journal Graduate Student Poster Award Runner Up

5. **Khajehzadehshoushtar S, Delfinis LJ, Garibotti MC, Gandhi S, Brahmhatt AN, Morris BA, Garlisi B, Lauks S, Aitken C, Petrik J, Perry CGR.** Exploring the relationship between mitochondrial-linked cell death and muscle atrophy during ovarian cancer progression. *Ontario Exercise Physiology Conference* (June 2024), Hamilton, Canada, and *Muscle Health Awareness Day 15* (May 2024), Toronto, Canada.
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8. **Prowting JL, Perry CGR, Josse AR.** Resistance exercise training increases resting circulating markers of oxidative stress with both carbohydrate and Greek yogurt dietary supplementation. *Canadian Society for Exercise Physiology Annual General Meeting* (October 2023), Alberta, Canada.
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myofilament dysregulation. *American Association for Cancer Research 2023*, Orlando, FL, USA; *Cancer Res* (2023) 83 (7_Supplement): 4248.

14. **Delfinis LJ, Gandhi S, Garibotti MC, Thuhan AK, Khajehzadehshoushtar, S, Reid RA**, Ogilvie LM, Matuszewska K, Periera M, Cheng AJ, Simpson JA, Petrik J, Perry CGR. Early muscle weakness and mitochondrial stress in mice with ovarian cancer are reversed during later stages in tibialis anterior but not diaphragm. *Ontario Exercise Physiology conference* (July 2023), Kingston, Canada; and *Advances in Skeletal Muscle Biology in Health and Disease 2023*, Gainesville, FL, USA and *14th Muscle Health Awareness Day* (May 2023), York University, Toronto, Canada.
15. **Delfinis LJ, Bellissimo CA, Gandhi S, DeBenedetto SN, Garibotti MC, Thuhan AK**, Tsitkanou S, Rosa-Caldwell ME, Cheng FA, Wiggs AJ, Schlattner MP, Quadrilatero J, Greene NP, Perry CGR. Early muscle weakness during C26 cancer precedes atrophy but later recovers within quadriceps in association with mitochondrial compensations. *Ontario Exercise Physiology conference* (July 2023), Kingston, Canada; and *Advances in Skeletal Muscle Biology in Health and Disease 2023*, Gainesville, FL, USA and *14th Muscle Health Awareness Day* (May 2023), York University, Toronto, Canada.
16. **Gandhi S, Delfinis LJ, Garibotti MC, Bellissimo CA**, Goli AN, **Castellani LN**, Yakobov S, Edgett BA, Backx PH, Simpson JA, Perry CGR. In the *D2.mdx* Duchenne muscular dystrophy mouse model, Adiponectin-receptor agonism mitigates chamber-specific cardiac fibrosis and mitochondrial stress responses. *Advances in Skeletal Muscle Biology in Health and Disease 2023*, Gainesville, FL, USA.
17. Ogilvie LM, Pereira M, Matuszewska K, Coyle-Asbil B, **Delfinis LJ, Gandhi S**, Brunt KR, Perry CGR, Pyle WG, Petrik J, Simpson JA. Epithelial ovarian cancer causes cardiac dysfunction and myofilament dysregulation. *American Association for Cancer Research Annual Meeting 2023*, Orlando, FL, USA.
18. Coyle-Asbil B, Ogilvie LM, Pereira M, Matuszewska K, **Delfinis LJ, Gandhi S**, Brunt KR, Perry CGR, Petrik J, Simpson JA. The progression of changes in cardiac structure and function in mice with epithelial ovarian cancer. *American Association for Cancer Research Annual Meeting 2023*, Orlando, FL, USA.
19. **Reid R, Khajehzadehshoushtar S, Delfinis LJ**, Perry CGR. The development of muscle degradation and regeneration in a mouse model of ovarian cancer. *Conference for Undergraduate Health Research*, York University (May 2022).
20. **Khajehzadehshoushtar, S, Reid R, Delfinis LJ**, Perry CGR. Epithelial ovarian cancer causes muscle-specific fibrosis in mice. *Conference for Undergraduate Health Research*, York University (May 2022). Accepted June 2022 in the Undergraduate Research in Natural and Clinical Science Technology Journal (URN CST).
21. **Thuhan AK, Garibotti MC**, Abdul-Sater AA, Perry CGR (July 2022). Establishing a mouse model to examine the effects of autoimmune myositis on muscle. *Ontario Exercise Physiology 2022 conference*, Alliston, ON.
22. **Garibotti MC, Thuhan AK**, Abdul-Sater AA, Perry CGR (July 2022). Exploring the effects of an experimental autoimmune myositis mouse model on skeletal muscle mass. *Ontario Exercise Physiology 2022 conference*, Alliston, ON.
23. **Bellissimo CA, Castellani LN, Gandhi S**, Murugathasan M, Finch M, MacPherson REK, Abdul-Sater AA, Perry CGR (May 2022). Adiponectin receptor agonism improves novel object recognition

in a mouse model of Duchenne muscular dystrophy. *International Biochemistry of Exercise Conference 2022*, Toronto, Canada.

24. **Bellissimo CA, Gandhi S, Delfinis LJ, Castellani LN, Thuhan A, Garibotti MC, Seo Y, Rebalka I, Hawke TJ, Murugathasan M, Abdul-Sater AA, Perry CGR** (May 2022). Adiponectin receptor agonism attenuates fibrosis, inflammation and mitochondrial H₂O₂ emission in diaphragm from the D2.mdx mouse model of Duchenne muscular dystrophy. *International Biochemistry of Exercise Conference 2022*, Toronto, Canada and *Ontario Exercise Physiology 2022* conference, Alliston, Canada; *Canadian Student Health Research Forum (CSHRF)*, June, Winnipeg, Canada
25. **Gandhi S, Delfinis LJ, Garibotti MC, Bellissimo CA, Castellani LA, Yakubov S, Edgett BA, Backx PJ, Simpson JA, Perry CGR** (May 2022). Adiponectin-receptor agonism mitigates chamber-specific cardiac fibrosis and mitochondrial stress in the D2.mdx mouse model of Duchenne muscular dystrophy. *International Biochemistry of Exercise Conference 2022*, Toronto, Canada; *Ontario Exercise Physiology 2022* conference, Alliston, Canada; *Canadian Student Health Research Forum (CSHRF)*, June, Winnipeg, Canada.
 - ‘Honourable Mention’ for top poster presentation at CSHRF, June.
26. **Delfinis LJ, Gandhi S, Garibotti MC, Thuhan AK, Reid RA, Khajehzadehshoushtar S, Ogilvie LM, Matuszewska K, Periera M, Cheng AJ, Simpson JA, Petrik J, Perry CGR** (May 2022). Skeletal muscle mitochondrial pyruvate oxidation is reduced in early asymptomatic ovarian cancer but partially restored in advanced stages. *International Biochemistry of Exercise Conference 2022*, Toronto, Canada.
27. **Delfinis LJ, Bellissimo CA, Gandhi S, DiBenedetto SN, Rosa-Caldwell ME, Rahman FA, Wiggs MP, Schlattner U, Quadriatero J, Greene NP, Perry CGR** (May 2022). Muscle weakness precedes atrophy during cancer cachexia in the C26 mouse and is linked to muscle-specific mitochondrial stress. *International Biochemistry of Exercise Conference 2022*, Toronto, Canada and *Ontario Exercise Physiology 2022* conference, Alliston, ON; *Canadian Student Health Research Forum (CSHRF)*, June, Winnipeg, Canada.
28. **Brown JK, Perry CGR, Prior T, Phillips SM, Skelly LE, Josse AR** (Nov 2021). Differential postprandial amino acid responses following the consumption of isonitrogenous doses of Greek Yogurt and Skim Milk. *Canadian Society for Exercise Physiology Annual General Meeting 2021*, Virtual, Canada and *Ontario Exercise Physiology 2022* conference, Alliston, ON.
29. **Gandhi S, Bellissimo CA, Castellani LN, Yakubov S, Simpson JA, Perry CGR** (May 2021). Examining the role of chamber-specific mitophagy and mitochondrial bioenergetics on cardiomyopathy in Duchenne muscular dystrophy. *Muscle Health Awareness Day*, Virtual, York University.
30. **Delfinis LJ, Bellissimo CA, DiBenedetto SN, Gandhi S, Rosa-Caldwell M, Rahman F, Quadriatero J, Greene NP, Perry CGR**. (May 2021). Do skeletal muscle mitochondria compensate during atrophy in the C26 model of cancer cachexia? *Muscle Health Awareness Day*, Virtual, York University.
31. **Bellissimo CA, Delfinis LJ, Hughes MC, Turnbull PC, Gandhi S, DiBenedetto S, Rahman F, Tadi P, Amaral C, Dehghani A, Quadriatero J, Schlattner U, Perry CGR**. (May 2021). In the D2.mdx mouse model of Duchenne muscular dystrophy, restoring mitochondrial creatine metabolism is associated with partial improvements in muscle quality and function. *Muscle Health Awareness Day*, Virtual, York University.
 - *Best Presentation Award

32. **Bellissimo CA, Delfinis LJ, Hughes MC, Turnbull PC, Gandhi S, Tadi P, Amaral C, Dehghani A, Schlattner U, Perry CGR** (Nov. 2020). In the D2.*mdx* mouse model of Duchenne muscular dystrophy, restoring mitochondrial creatine metabolism is associated with partial improvements in muscle quality. *The American Physiological Society – Integrative Physiology of Exercise Meeting*, Virtual, USA.
 - *Winner of The American Physiological Society Integrative Physiology of Exercise poster award
33. **Delfinis LJ, Bellissimo CA, DiBenedetto SN, Gandhi S, Rosa-Caldwell M, Greene NP, Perry CGR** (Nov. 2020). Novel insight on creatine-dependent and creatine-independent mitochondrial bioenergetics in the C26 model of cancer cachexia. *The American Physiological Society – Integrative Physiology of Exercise Meeting*, Virtual, USA.
34. **Delfinis LJ, Bellissimo CA, DiBenedetto SN, Gandhi S, Rosa-Caldwell M, Greene NP, Perry CGR** (Oct. 2020). Exploring the role of mitochondria in muscle weakness and atrophy in a mouse model of cancer cachexia. *Canadian Society for Exercise Physiology Annual General Meeting*, Virtual, Canada (oral presentation).
35. **Bellissimo CA, Delfinis LJ, Hughes MC, Turnbull PC, Gandhi S, Tadi P, Amaral C, Dehghani A, Schlattner U, Perry CGR** (Oct. 2020). Muscle health in a mouse model of Duchenne muscular dystrophy can be partially improved by restoring mitochondrial creatine metabolism. *Canadian Society for Exercise Physiology Annual General Meeting*, Virtual, Canada (oral presentation).
36. **Delfinis LJ and Bellissimo CA, DiBenedetto SN, Gandhi S, Perry CGR** (Feb. 2020). Exploring the relationship between mitochondrial dysfunction and skeletal muscle weakness during cancer. *Ontario Exercise Physiology Winter Meeting, Barrie, ON*.
37. **Bellissimo CA, Delfinis LJ, Hughes MC, Tadi P, Amaral C, Dehghani A, Perry CGR** (Feb. 2020). The mitochondrial-enhancing drug Olesoxime improves quadriceps mitochondrial function and force recovery but not diaphragm function in a mouse model of Duchenne muscular dystrophy. *Ontario Exercise Physiology Winter Meeting, Barrie, ON*.
38. **Avin KG, Srinivasan S, Allen MR, Hughes MC, Chen NX, Troutman A, O'Neill KD, Bacallao R, Moe SM, Perry CGR** (Feb. 2020). Physical activity has divergent effects on musculoskeletal health in chronic kidney disease. *American Physical Therapy Association, Denver, CO, USA*.
39. **Avin KG, Hughes MC, Srinivasan S, Chen NX, Troutman A, O'Neill KD, Bacallao R, Moe SM, Perry CGR** (Nov. 2019). Skeletal muscle mitochondrial response to wheel running in a rat model of chronic kidney disease. *American Society of Nephrology Kidney Week, Washington, DC, USA*.
40. **Turnbull PC, Wallace HE, Davidson LR, Samson E, Graham A, Bell MCW, Brebner K, Perry CGR, Kane DA** (April 2019). H1/H2 histamine receptor blockade differentially alters glutathione redox status in hindlimb skeletal muscle following a bout of prolonged exercise. *Experimental Biology, Orlando, FL, USA*
41. **Ramos SV, Hughes MC, Bellissimo CA, Perry CGR** (April 2019). Mitochondrial Dysfunction and Disorganized Microtubules in Duchenne Muscular Dystrophy are Not Related to Altered α Tubulin-Voltage Dependent Anion Channel (VDAC)2 Interactions. *Experimental Biology, Orlando, FL, USA*
42. **Turnbull PC*, Dehghani AC, Hughes MC, Perry CGR** (April 2019). Fatty acid-induced hepatocellular carcinoma growth is mediated by decreasing mitochondrial H₂O₂ emission coupled to increased glutathione levels. *Experimental Biology, Orlando, FL, USA*.
 - *Winner of American Society of Biochemistry and Molecular Biology Travel Award

43. **Hughes MC, Ramos SV, Perry CGR** (March 2019). In Duchenne muscular dystrophy, *in vitro* treatment with the mitochondrial-targeted peptide SBT-20 rescues impairments in creatine-dependent energy exchange and protects mitochondrial creatine kinase from oxidative modifications. *Advances in Skeletal Muscle Biology in Health and Disease meeting, University of Florida, Gainesville, FL, USA. Also shown at Ontario Exercise Physiology meeting, Barrie, ON, Jan 2019.*
 - *Winner of Aurora Scientific Award for best poster
44. **Hughes MC*, Ramos SV, Bellissimo CA, Dial AG, Tin E, Hawke TJ, Perry CGR** (March 2019). The mitochondrial-targeting peptide SBT-20 improves diaphragm force and hind-limb muscle volume in Duchenne muscular dystrophy. *Advances in Skeletal Muscle Biology in Health and Disease meeting, University of Florida, Gainesville, FL, USA.*
45. **Turnbull PC*, Dehghani A, Perry CGR.** (Jan 2019). Application of mitochondrial bioenergetics to cancer: fatty acid-induced hepatocellular carcinoma growth is mediated by decreasing mitochondrial H₂O₂ emission and increased glutathione levels. *Ontario Exercise Physiology meeting, Barrie, ON.*
 - *Winner of American Journal of Physiology Cell Physiology award for best abstract and presentation
46. **Bellissimo CA*, Delfinis LJ, Hughes MC, Tadi P, Amaral C, Dehghani A, Perry CGR** (Jan. 2019). The mitochondrial-enhancing drug Olesoxime improves quadriceps mitochondrial function and force recovery but not diaphragm function in a mouse model of Duchenne muscular dystrophy. *Ontario Exercise Physiology meeting, Barrie, ON. Also shown at Muscle Health Awareness Day, Toronto, ON, May 2019 and in Advances in Skeletal Muscle Biology in Health and Disease meeting, University of Florida, Gainesville, FL, USA, March 2019.*
 - *Winner Ontario Exercise Physiology Award for best abstract and presentation
47. Cynthia M. F. Monaco*, **Meghan C. Hughes*, Sofhia V. Ramos**, Robert Laham, Christopher G. R. Perry, Thomas J. Hawke (*equal contribution) (Jan. 2019). Sex-specific differences in skeletal muscle mitochondrial bioenergetics in Type 1 Diabetes. *Ontario Exercise Physiology meeting, Barrie, ON.*
48. **Bellissimo CA, Hughes MC, Delfinis L, Tadi P, Amaral C, Dehghani A, Perry CGR** (Oct. 2018). Does the mitochondrial-enhancing drug Olesoxime improve muscle mass and function in a mouse model of Duchenne Muscular Dystrophy? *Canadian Society for Exercise Physiology Annual General Meeting, Niagara Falls, ON, Canada.*
49. **Hughes MC*, Ramos SV, Turnbull PC, Rebalka IA, Cao A, Monaco CMF, Varah NE, Edgett BA, Huber JS, Tadi P, Simpson JA, Hawke TJ, Perry CGR** (Oct. 2018). Mitochondrial H₂O₂ emission is elevated during oxidative phosphorylation in Duchenne muscular dystrophy. *Canadian Society for Exercise Physiology Annual General Meeting, Niagara Falls, ON, Canada.*
 - *Finalist for CSEP Graduate Student Award
50. **Ramos SV, Hughes MC, Perry CGR** (Oct. 2018). Microtubule destabilizing chemotherapy: implications to muscle health and survival examined through *in-vitro* and *in-vivo* models. *Canadian Society for Exercise Physiology Annual General Meeting, Niagara Falls, ON, Canada.*
51. **Dehghani AC, Turnbull PC, Perry CGR** (Aug. 2018). Hepatocellular carcinoma cells are able to withstand mitochondrial activation despite low baseline glutathione. *NSERC Undergraduate Research Conference, York University, Toronto, ON, Canada.*

52. **Turnbull PC, Hughes MC, Perry CGR** (May 2018). Cancer-specific cell death in response to palmitoyl-carnitine is caused by elevated H₂O₂ emission and corresponding glutathione depletion. (Also May 2018 *Muscle Health Awareness Day*, York University, Toronto, ON, Canada).
53. **Hughes MC, Ramos SV, Teich T, Perry CGR** (May 2018). In Duchenne muscular dystrophy, mitochondrial bioenergetic impairments are linked to dysfunctions in creatine-dependent energy exchange. *Muscle Health Awareness Day*, York University, Toronto, ON, Canada. (Also shown at *Ontario Exercise Physiology meeting*, Barrie, ON, Canada, Jan. 2018)
54. **Ramos SV, Hughes MC, Perry CGR** (May 2018). Microtubule destabilizing chemotherapy may prevent the induction of apoptosis in glycolytic muscles utilizing *in-vitro* and *in-vivo* methodologies. *Muscle Health Awareness Day*, York University, Toronto, ON, Canada.
55. **Ramos SV, Hughes MC, Perry CGR** (Jan. 2018). Evidence that mitochondrial bioenergetics are directly regulated by the cytoskeleton in skeletal muscle: microtubule binding to VDAC alters ADP's control of reactive oxygen species emission. *Ontario Exercise Physiology meeting*, Barrie, ON, Canada.
 - *2nd place for Graduate Student Award
56. **Turnbull PC, Perry CGR** (Jan. 2018). Fatty acid treatment kills low-glutathione colon cancer but not high-glutathione breast cancer or non-cancerous cells: a possible role for basal glutathione as a biomarker in fatty acid therapy. *Ontario Exercise Physiology meeting*, Barrie, ON, Canada, Jan. 2017.
57. **Hughes MC, Ramos SV, Tadi P, Perry CGR** (Sept. 2017). Mitochondrial-targeted peptide SBT-20 improves mitochondrial bioenergetics in Duchenne muscular dystrophy in a mitochondrial-creatine kinase dependent manner. *MitoNET 2017*, Toronto, ON, Canada.
58. **Ramos SV, Hughes MC, Perry CGR** (April 2017). Mitochondrial ADP/ATP cycling through the outer membrane voltage dependent anion channel (VDAC) may be regulated by microtubules in various muscle types. *Experimental Biology*, Chicago, IL, USA. (Also shown at *Ontario Exercise Physiology meeting*, Barrie, ON, Canada, Jan. 2017)
59. **Hughes MC, Ramos SV, Polidovitch N, Backx PH, Perry CGR** (April 2017). Mitochondrial-Targeted Peptide SBT-20 Improves Mitochondrial Bioenergetics In Duchenne Muscular Dystrophy (DMD) In a Mitochondrial Creatine Kinase Dependent Manner. *Experimental Biology*, Chicago, IL, USA. (Also shown at local Ontario Exercise Physiology meeting, Barrie, ON, Canada, Jan. 2017, *Muscle Health Awareness Day*, York University, Toronto, May 2017, and *MitoNET 2017*, Toronto).
60. **Turnbull PC, Perry CGR** (April 2017). Cancer-Specific Cell Death in Response to Palmitoylcarnitine is Associated with Increased Mitochondrial Hydrogen Peroxide and Glutathione Concentration. *Experimental Biology*, Chicago, IL, USA. (Also shown at local *Ontario Exercise Physiology meeting*, Barrie, ON, Canada, Jan. 2017).
61. **Ramos SV, Hughes MC, Perry CGR** (Jan. 2017). Mitochondrial ADP/ATP cycling through the outer membrane voltage dependent anion channel (VDAC) may be regulated by microtubules in various muscle types. *Ontario Exercise Physiology meeting*, Barrie, ON, Canada, Jan. 2017.
 - *2nd place for Graduate Student Award
62. Kane DA, Brebner K, **Perry CGR**, Neuffer PD (July 2016). Effects of inhibiting myosin-ATPase on mitochondrial respiratory capacity in permeabilized skeletal muscle. *MitoFIT Mitochondrial Bioenergetics Summer Camp 2016*, Kuehtai, Austria.

63. **Hughes MC**, Monaco CMF, **Ramos SV**, D'Souza D, Hawke TJ, Perry CGR (June 2016). Does exercise prevent mitochondrial bioenergetic dysfunctions in human Type 1 Diabetic skeletal muscle? *9th Meeting - Canadian Oxidative Stress Consortium*, University of Guelph, Guelph, ON, Canada.
64. **Turnbull PC**, **Nejatbakhsh A**, Perry CGR (June 2016). Nutritional targeting of mitochondria in cancer: lipid incubation increases H₂O₂ emission in HT29 and MCF7 adenocarcinomas but not in non-cancer epithelial cells. *9th Meeting - Canadian Oxidative Stress Consortium*, University of Guelph, Guelph, ON, Canada.
65. **Nejatbakhsh A**, **Turnbull PC**, Landar A, Perry CGR (June 2016). Optimization and validation of IRDye800CW for the direct detection of protein oxidation in muscle lysate using in-gel and microplate assays. *9th Meeting - Canadian Oxidative Stress Consortium*, University of Guelph, Guelph, ON, Canada. (also May 2015 *Muscle Health Awareness Day*, York University, Toronto, ON, Canada)
66. **Hughes MC**, **Ramos SV**, **Turnbull PC**, Perry CGR (June 2016). Early onset of muscle-specific alterations in mitochondrial bioenergetics in the D2.B10-DMD^{mdx}/2J mouse model of Duchenne Muscular Dystrophy. *9th Meeting - Canadian Oxidative Stress Consortium*, University of Guelph, Guelph, ON, Canada (also May 2015 *Muscle Health Awareness Day*, York University, Toronto, ON, Canada)
67. **Ramos SV**, **Hughes MC**, Perry CGR (June 2016). Determining the effects of microtubule stabilizing and destabilizing chemotherapy drugs on mitochondrial bioenergetics in skeletal muscle. *9th Meeting - Canadian Oxidative Stress Consortium*, University of Guelph, Guelph, ON, Canada. (also May 2015 *Muscle Health Awareness Day*, York University, Toronto, ON, Canada)
68. **Turnbull PC**, **Nejatbakhsh A**, Perry CGR (May 2016). Nutritional targeting of mitochondrial bioenergetics in cancer: lipid incubation increases Caspase 3/9 activity concurrent with increased H₂O₂ emission in MCF7 cancer but not HT29 cancer and non-cancer epithelial cells. *Muscle Health Awareness Day*, York University, Toronto, ON, Canada.
69. Al-Sajee D, **Hughes MC**, Perry CGR, Provias J, Mangan G, Hawke T (Jan. 2016). Defining Mechanisms for altered skeletal muscle function in the absence of Xin; a possible role of dysfunctional mitochondria? *Advances in Skeletal Muscle Biology in Health and Disease*, Gainesville, Florida, USA.
70. **Ramos SV**, **Hughes MC**, **Kodsy M**, **Fitisova A**, Perry CGR (Oct. 2015). Determining the effects of microtubule stabilizing and destabilizing chemotherapy drugs on mitochondrial bioenergetics in skeletal muscle. *Canadian Society for Exercise Physiology Annual General Meeting*, Hamilton, ON, Canada.
71. **Hughes MC**, **Ydfors M**, Laham R, Norrbom J, Schlattner U, Perry CGR (Oct. 2015). Modeling in vivo conditions in vitro reveals mitochondrial respiratory sensitivity to ADP is impaired following chronic exercise in human muscle. *Canadian Society for Exercise Physiology Annual General Meeting*, Hamilton, ON, Canada
72. **Hughes MC**, **Ramos SV**, **Turnbull PC**, **Nejatbakhsh A**, Laham R, Kane DA, Gurd BJ, Quadriatero J, Perry CGR (Oct. 2015). An examination of microbiopsy vs Bergstrom percutaneous sampling of human skeletal muscle for the assessment of mitochondrial respiration in permeabilized muscle fibres. *Canadian Society for Exercise Physiology Annual General Meeting*, Hamilton, ON, Canada
73. **Nejatbakhsh A**, **Turnbull PC**, Landar A, Perry CGR (Oct. 2015). A simplified approach for the

detection of protein redox state in cardiac muscle homogenate using in-gel and in-well fluorescent labelling of reduced cysteines. *Canadian Society for Exercise Physiology Annual General Meeting*, Hamilton, ON, Canada

74. **Hughes MC** and Perry CGR (Oct. 2015). The effect of acute and chronic exercise on mitochondrial respiratory sensitivity to ADP in Human Skeletal Muscle. *Saltin International Graduate Course in Clinical & Exercise Physiology*, Toronto, ON, **Canada**.
75. **Ramos SV** and Perry CGR (Oct. 2015). The effects of chemotherapeutic microtubule stabilizing and destabilizing drugs on skeletal muscle mitochondrial H₂O₂ emission and respiration. *Saltin International Graduate Course in Clinical & Exercise Physiology*, Toronto, ON, **Canada**.
76. **Nejatbakhsh A**, Perry CGR (May 2015). In-gel detection of a maleimide-based infrared-fluorescent dye as a simplified approach for the detection of protein redox state in cardiac muscle homogenate. *Muscle Health Awareness Day*, York University, Toronto, ON, Canada.
77. **Hughes MC**, **Ydfors M**, Laham R, Norrbom J, Perry CGR (May 2015). The effect of acute and chronic high intensity interval exercise on mitochondrial respiratory sensitivity to ADP. *Muscle Health Awareness Day*, York University, Toronto, ON, Canada.
 - *1st place for poster prize.
78. **Ramos SV**, **Hughes MC**, Perry CGR (May 2015). The effects of chemotherapeutic microtubule stabilizing and destabilizing drugs on skeletal muscle mitochondrial H₂O₂ emission and respiration. *Muscle Health Awareness Day*, York University, Toronto, ON, Canada.
79. Porras DP, Perry CGR, Scimè A (April 2015). Stem cell bioenergetics: A novel regulatory mechanism for adipocyte lineage fates. *Beige and Brown Fat: Basic Biology and Novel Therapeutics, Keystone Symposia*, Snowbird, Utah, USA.
80. **Nejatbakhsh A**, Perry CGR (Feb. 2015). In-gel detection of a maleimide-based infrared-fluorescent dye as a simplified approach for the detection of protein redox state in cardiac muscle homogenate. *Ontario Exercise Physiology meeting*, Barrie, ON, Canada
81. **Hughes M***, **Ydfors M**, Laham R, Norrbom J, Perry CGR (Feb. 2015). The effect of acute and chronic high intensity interval exercise on skeletal muscle mitochondrial respiratory sensitivity to ADP in humans. *Ontario Exercise Physiology meeting*, Barrie, ON, Canada
 - *2nd place for Graduate Student Award
82. Porras DP, Grewal JS, Perry CGR, Scimè A (Dec. 2014). The cell cycle regulator p107 controls the bioenergetic state of mesenchymal stem cells. *Cell Symposium: Stem Cell Energetics*, Berkeley, CA, USA.
83. Bhattacharya D, Porras DP, Belozarov V, Perry CGR, Scimè A (Oct. 2014). A role for p107 in bioenergetic switching of stem cells. *2014 Till & McCulloch Stem Cell Network meeting*, Ottawa, ON, Canada.
84. Porras DP, Grewal JS, Perry CGR, Scimè A (Oct. 2014). p107 controls the bioenergetic state of quiescent mesenchymal stem cells. *2014 Till & McCulloch Stem Cell Network meeting*, Ottawa, ON, Canada
85. Edgett BA, Scribbans TD, Matusiak J, Ma JK, **Hughes MC**, Perry CGR, Gurd BJ (Sept. 2014). The impact of a 48 hour fast on mitochondrial biogenic gene expression and fatty acid oxidation in young healthy men. *American College of Sports Medicine Integrative Physiology of Medicine Conference*, Miami, FL, USA.

86. Scribbans TD, **Hughes MC**, Edgett BA, Matusiak J, Ma JK, Perry CGR, Gurd BJ (Sept. 2014). Prolonged fasting and resveratrol alter substrate metabolism in human skeletal muscle. *American College of Sports Medicine Integrative Physiology of Medicine Conference*, Miami, FL, USA.
87. Perry CGR, Kane DA, **Tahmasebi H**, **Hughes MC**, Neuffer PD (Sept. 2014). Evaluation of critical experimental parameters for assessing mitochondrial bioenergetics in permeabilized myofibres. Mitochondrial physiology conference 2014. Obergurgl, Tyrol, Austria (oral presentation)
88. **Ydfors M**, Perry CGR, Norrbom J (Aug. 2014). PGC-1alpha splice variants after one bout of HIIT in healthy men. *Federation of European Physiological Societies (FEPS) and the Hungarian Physiological Society. Acta Physiol* 211: 74. Budapest, Hungary.
89. **Ydfors M**, **Hughes MC**, Laham R, Norrbom J, Perry CGR (Oct. 2013). Evidence that mitochondrial adenine nucleotide transport is transiently improved during acute exercise but chronically improved with training in human skeletal muscle. *Canadian Society for Exercise Physiology Annual General Meeting*. Toronto, ON. *Appl Physiol Nutr Metab.* 38(10): 1091. (oral presentation)
90. **Ydfors M**, **Hughes MC**, Laham R, Norrbom J, Perry CGR (Aug. 2013). The progressive effects of exercise training on the acute regulation of creatine-independent respiratory sensitivity to ADP in human skeletal muscle. *International Symposium: MiP Summer 2013 "Mitochondrial Physiology" – Theory & Praxis*, Copenhagen, Denmark. (oral poster presentation)
91. Perry CGR, Brophy P, Cathey B, Lin CT, Kane D, Smith C, Lark D, Kane C, Gavin T, Hickner R, Neuffer PD (July 2013). Evidence that insulin sensitivity is regulated acutely through redox biology in response to a single high fat meal in humans. *American Diabetes Association*, Chicago, IL. *Diabetes*, 62: A500.
92. Kang L, Dai C, Lustig ME, Bonner JS, James FD, Lin CT, Perry CGR, Anderson EJ, Neuffer PD, Wasserman DH, Powers AC (July 2013). SOD2: A Pivotal Regulator of Insulin Secretion but Not Insulin Action in High Fat-Fed Mice. *American Diabetes Association*, Chicago, IL. *Diabetes*, 62: A85.
93. Castellani L, Perry CGR, Root-McCaig J, Wright DC (Oct. 2012). Interleukin-6 and adipose tissue insulin resistance during the recovery from exercise. *American Physiological Society Integrative Biology of Exercise Meeting*, Westminster, CO. (poster)
94. Perry CGR, Herbst EAF, Wright DC, Heigenhauser GFH, Spriet LL, Holloway GP (July 2012). Is electron transport activity regulated by contraction? Evidence that mitochondrial complex I sensitivity to NADH increases in response to exercise in human skeletal muscle. *Proceedings of the 17th Annual Congress of the European College of Sport Science*, Bruges, Belgium. (oral presentation)
95. Perry CGR, Herbst EAF, Wright DC, Heigenhauser GFH, Spriet LL, Holloway GP (June 2012). Mitochondrial respiratory sensitivity to ADP in human skeletal muscle increases post-exercise. *15th International Biochemistry of Exercise Congress*, Stockholm, Sweden. (oral presentation)
96. Smith BK, Perry CGR, Neuffer PD, Koves TR, Muoio DM, Holloway GP (June 2012). Skeletal muscle malonyl-CoA kinetics revisited: influence of palmitoyl-CoA. *15th International Biochemistry of Exercise Congress*, Stockholm, Sweden. (oral presentation)
97. Lin CT, Fisher-Wellman KH, Perry CGR, Kozy R, Lark DS, Gilliam LAA, Smith CD, Neuffer PD (April 2012). Low intensity exercise attenuates acute lipid loading-induced alterations in mitochondrial function in rat skeletal muscle. *Experimental Biology Annual Conference*, San Diego, CA. *FASEB J.* 26:1144.11. (poster)

98. Perry CGR, Kane DA, Lin CT, Kozy R, Cathey B, Lark DS, Kane CL, Brophy P, Gavin T, Anderson EJ, Neuffer PD (May 2011). Inhibiting myosin-ATPase reveals dynamic range of mitochondrial respiratory control in permeabilized skeletal muscle fibres. *National Heart, Lung and Blood Institute Mitochondrial Biology Symposium: Advances in Mitochondrial Dynamics and Mitochondrial-Cytosolic Communications*. National Institutes of Health, Bethesda, MD. (poster)
99. Perry CGR, Kane DA, Kozy R, Kane CL, Lark DS, Lin CT, Brophy P, Gavin TP, Anderson EJ, Neuffer PD (Sept. 2010). Contraction increases mitochondrial respiratory sensitivity to ADP at body temperature in human permeabilized myofibres. *American College of Sports Medicine - Integrative Physiology of Exercise Meeting*. Miami Beach, FL. *MSSE* 42(10):98. (poster)
100. Lin CT, Kane DA, Lark DS, Fisher-Wellman KH, Zheng D, Perry CGR, Kane CL, Kozy R, Tapscott EB, Ellis RJ, Woodlief TL, Neuffer PD (Sept. 2010). B-GPA prevents high-fat induced mitochondrial H₂O₂ emission and insulin resistance independent of AMPK in mice. *American College of Sports Medicine - Integrative Physiology of Exercise Meeting*. Miami Beach, FL. *MSSE* 42(10):22. (poster)
101. Lin CT, Lark DS, Kane DA, Anderson EJ, Tweedie CL, Perry CGR, Fisher-Welman KH, Neuffer PD (June 2010). Metformin treatment protects against calcium-induced opening of the mitochondrial permeability transition pore in skeletal muscle of obese Zucker rats. *American Diabetes Association Annual Conference*, Orlando, FL. *Diabetes*. 59 S1: A424. (poster)
102. Kang L, Lee-Young RS, Lustig ME, James FD, Lin CT, Perry CGR, Neuffer PD, Wasserman DH (June 2010). Reduction of mitochondrial ROS by overexpression (OE) of antioxidants superoxide dismutase 2 (SOD2) and catalase increases muscle glucose uptake (MGU) during exercise (EX) in chow- and high fat (HF)-fed mice *in vivo*. *American Diabetes Association Annual Conference*, Orlando, FL. *Diabetes*. 59 S1: A114. (poster)
103. Perry CGR, Kane DA, Lin CT, Anderson EJ, Neuffer PD (June 2009). The effects of inhibiting contraction on ADP-stimulated respiratory kinetics in permeabilized myofibres. *International Biochemistry of Exercise*, Guelph, ON. *Appl. Physiol. Nutr. Metab.* 34:1149. (poster)
104. Perry CGR, Lally J, Holloway GP, Bonen A, Heigenhauser GJ, Spriet LL (June 2009). Early transcriptional regulation of mitochondrial biogenesis during training in human skeletal muscle. *International Biochemistry of Exercise*, Guelph, ON. *Appl. Physiol. Nutr. Metab.* 34:1149. (oral presentation)
105. Lin CT (presenter), Kwon OS, Kane DA, Woodlief TL, Kwak HB, Price JW, Bikman BT, Hung JS, Perry CGR, Cortright RN, Neuffer PD (June 2009). Exercise and β -GPA treatment prevent increased mitochondrial H₂O₂ emission and insulin resistance induced by high fat diet. *International Biochemistry of Exercise*, Guelph, ON. *Appl. Physiol. Nutr. Metab.* 34:1123. (oral presentation)
106. Kang L, Lustig ME, Anderson EJ, Lin CT, Perry CGR, Neuffer PD, Wasserman DH (April 2009). Oxidative stress limits exercise- and insulin-stimulated muscle glucose uptake (MGU) in conscious, chow-fed C57BL/6J mice. *Experimental Biology Annual Conference*, New Orleans, LA. *FASEB J* 23: 990.32. (poster)
107. Perry CGR, Holloway GP, Heigenhauser GJF, Bonen A, Spriet LL (Sept. 2008). Rapid increases in skeletal muscle PGC-1 α and PPAR contents precede increases in mitochondrial enzymes during high-intensity interval training in men. *American Physiological Society - Integrative Biology of Exercise Meeting*, Hilton Head, SC. (poster)

108. Perry CGR, Heigenhauser GJF, Spriet LL (Nov. 2007). Temporal responses in the regulation of mitochondrial biogenesis during high-intensity interval training in humans. *Canadian Society for Exercise Physiology Annual General Meeting*, London, ON. (oral presentation)
109. Perry CGR, Talanian JL, Heigenhauser GJF, Spriet LL (May 2006). Skeletal muscle metabolic adaptations in response to 6 weeks of high-intensity interval training. *American College of Sports Medicine - Integrative Physiology of Exercise Meeting*, Indianapolis, IN. *MSSE* 38(11): S25. (poster)
110. Perry CGR, Talanian JL, Heigenhauser GJF, Spriet LL (May 2006). Hyperoxic training provides no additional improvement in VO₂max, exercise performance and skeletal muscle enzyme activities. *53rd Annual Meeting of the American College of Sports Medicine*, Denver, CO. *MSSE* 38(5): S190. (poster)
111. Talanian JL (Presenter), Tunstall RA, Duong M, Heigenhauser GJF, Perry CGR, Spriet LL (April 2005). The role of epinephrine in activating HSL during exercise onset in human skeletal muscle. *Experimental Biology Annual Conference*, San Diego, CA. (oral presentation)
112. Perry CGR, Reid JC, Wilson BA, Heigenhauser GJF, Spriet LL (May 2005). Skeletal Muscle Metabolic Adaptations to Training in Hyperoxia. *1st Annual Graduate Student Symposium*, University of Guelph, Guelph, ON. (oral presentation)
113. Perry CGR, Reid JC, Perry WM, Wilson BA (May 2003). Effects of high intensity interval training in hyperoxia compared to normoxia. *50th Annual Meeting of the American College of Sports Medicine*, San Francisco, CA. *MSSE* 35: S372. (poster)
114. Perry CGR, Reid JC, Perry WM, Wilson BA (Jan. 2003). The effects of training in hyperoxia on performance and cardio-respiratory responses to exercise. *Ontario Exercise Physiology conference*, Barrie, ON. (oral presentation)

MEDIA INTERVIEWS AND FEATURES

Media Interviews – Expert Opinion

1. Inside Scientific – Integrating patient engagement and trainee development in pre-clinical research (September 21, 2023). <https://insidescientific.com/webinar/integrating-patient-engagement-and-trainee-development-in-pre-clinical-research/>
2. Inside Scientific – Perspectives on integrating research with industry and not-for profit (September 7, 2022). <https://www.youtube.com/watch?v=21j5dmMwGek>
3. The Guardian, UK – Can our mitochondria help to beat Covid? (Comment on exercise and mitochondrial adaptations; June 26, 2022) https://www.theguardian.com/science/2022/jun/26/can-our-mitochondria-help-to-beat-long-covid?CMP=share_btn_tw
4. Nature Outlook – Could mitochondria help athletes make gains? *Nature*, 592, S7-S9 (2021). <https://www.nature.com/articles/d41586-021-00817-2>
5. CTV news Television – Diabetes could impact skeletal muscles (April 18, 2018) <https://toronto.ctvnews.ca/video?clipId=1374145>
6. Fierce Biotech: Mitotech’s SkQ1 targets mitochondrial reactive oxygen species and a long list of age-related diseases (April 20, 2017). <http://www.fiercebiotech.com/sponsored/mitotech-s-skq1-targets-mtros-and-a-long-list-age-related->

[diseases](#)

7. Fitness magazine – Get Fitter, Firmer, Faster. 18 Fitness Shortcuts. (2010)
<http://www.fitnessmagazine.com/workout/tips/fast-workout-weight-loss-tips/>

Press Releases or Media Coverage

8. Delfinis LJ, Bellissimo CA, Gandhi S, DiBenedetto SN, Garibotti MC, Thuhan AK, Tsitkanou S, Rosa-Caldwell ME, Rahman FA, Cheng AJ, Wiggs MP, Schlattner U, Quadriatero J, Greene NP, Perry CGR. Muscle weakness precedes atrophy during cancer cachexia and is linked to muscle-specific mitochondrial stress. *JCI Insight*, 2022 Dec 22; 7(24):e155147.

Altmetric Score: 133 (Top 1.5%, 98th percentile for Attention Score)

Media Coverage (select list from 9 news outlets)

- The Conversation – For cancer patients, maintaining muscle is vital to health and treatment, but staying strong is complicated (January 4, 2024)

https://theconversation.com/for-cancer-patients-maintaining-muscle-is-vital-to-health-and-treatment-but-staying-strong-is-complicated-218881?utm_source=twitter&utm_medium=bylinetwitterbutton

- Winnipeg Free Press (January 5th, 2024)

9. Monaco CMF, Hughes MC, Ramos SV, Varah NE, Lambertz C, Rahman FA, McGlory C, Tarnopolsky MA, Krause MP, Laham R, Hawke TJ, Perry CGR. Altered mitochondrial bioenergetics and ultrastructure in the skeletal muscle of young adults with type 1 diabetes. *Diabetologia*. 2018 June; 61(6): 1411-1423.

Altmetric Score: 588 (Top 0.1%, 99.9th percentile for Attention Score, #1 for the journal *Diabetologia*)

Media Coverage (select list from 71 news outlets)

- CTV News – Diabetes could impact skeletal muscles (April 18, 2018)
<https://toronto.ctvnews.ca/video?clipId=1374145>
- ABC6 News (April 19, 2018)
- CBS8 News (April 19, 2018)
- Physician's Briefing (April 18, 2018)
- NBC12 News (April 18, 2018)
- USNews.com (April 18, 2018)
- HealthDay News (April 18, 2018)

10. Perry CGR, Lally J, Holloway GP, Bonen A, Heigenhauser GJ, Spriet LL. Repeated transient mRNA bursts precede increases in transcriptional and mitochondrial proteins during training in human skeletal muscle. *J Physiol*. 588: 4795-4810, 2010. PMID: 20921196.

Altmetric Score: 13, >550 citations (Top 10%, 90th percentile for Attention Score, Top 10% for *Journal of Physiology*)

Media Coverage

- Outside – Can I really improve my fitness in one week? (March 24, 2015)
- The Globe and Mail – The Skinny on Hardcore Fitness Regimes (Sept 2012):
<http://www.theglobeandmail.com/life/relationships/the-skinny-on-hardcore-fitness->

[regimes/article621635/](#)

11. Perry CGR, Bonen A, Heigenhauser GJ, Spriet LL. High-Intensity aerobic interval training increases fat and carbohydrate metabolic capacities in human skeletal muscle. *Appl Physiol Nutr Metab.* 33:1112-1123, 2008. PMID: 19088769

Altmetric Score: 74 (Top 2%, 98th percentile for Attention Score, Top 5% for Applied Physiology, Nutrition and Metabolism)

Media Coverage (select list from 6 news outlets)

- The Herald Sun. Melbourne, Australia. (March 9, 2016).
- The Courier Mail. Brisbane, Australia. (March 9, 2016)

UNIVERSITY SERVICE AND LEADERSHIP

2024-2025

Director, Muscle Health Research Centre

Co-Chair, School of Medicine Planning Group

Member, Tenure & Promotion Committee, School of Kinesiology & Health Science

2023-2024

Director, Muscle Health Research Centre

Chair, School of Kinesiology & Health Science Search Committee: Department (School) Chair.

Member, Tenure & Promotion Committee, School of Kinesiology & Health Science

2022-2023

Associate Director, Muscle Health Research Centre

Member, Tenure & Promotion Committee, School of Kinesiology & Health Science

2021-2022

Associate Director, Muscle Health Research Centre

Chair, School of Kinesiology & Health Science Faculty Search Committee: Assistant Professor, tenure track, Human Applied Cardiorespiratory Exercise Physiology

Member, Tenure & Promotion Committee, School of Kinesiology & Health Science

Executive Planning Committee, International Biochemistry of Exercise Conference 2022 (on behalf of the Faculty of Health, Kinesiology & Health Science, and the Muscle Health Research Centre)

2020-2021

Chair: File Preparation Tenure & Promotion Committee, School of Kinesiology & Health Science

Academic Executive, School of Kinesiology & Health Science

Executive Planning Committee, International Biochemistry of Exercise Conference 2022 (on behalf of the Faculty of Health, Kinesiology & Health Science, and the Muscle Health Research Centre)

2019-2020

Chair: File Preparation Tenure & Promotion Committee, School of Kinesiology & Health Science

Chair: School of Kinesiology & Health Science Search Committee: Assistant Professor, tenure track, Physical Activity Studies – Physical Fitness

Academic Executive, School of Kinesiology & Health Science

Executive Planning Committee, International Biochemistry of Exercise Conference 2022 (on behalf of the Faculty of Health, Kinesiology & Health Science, and the Muscle Health Research Centre)

2018-2019: Sabbatical

2017-2018

Chair: York University Animal Care Committee
Chair: School of Kinesiology & Health Science University Honours and Awards Committee
Chair: School of Kinesiology & Health Science Faculty Search Committee: Assistant Professor Muscle Physiologist in Sport Performance/Rehabilitation
Vivarium Users Committee
Vivarium Planning Working Group (Tasked with developing a proposal for a new Vivarium).
Farquharson Building Renovation User Committee
Faculty of Health Tri-Council Internal Peer Review Committee (NSERC)

2016-2017

Chair: York University Animal Care Committee
Chair: School of Kinesiology & Health Science University Honours and Awards Committee
Vivarium Users Committee
Farquharson Building Renovation User Committee
Faculty of Health Committee on Research and Awards
Faculty of Health Tri-Council Internal Peer Review Committee (NSERC, new to FoH 2016)

2015-2016

Chair: School of Kinesiology & Health Science University Honours and Awards Committee
York University Animal Care Committee

- Vice-Chair March-June 2016

Faculty of Health Committee on Research and Awards
School of Kinesiology & Health Science Graduate Executive Committee
School of Kinesiology & Health Science Nominating Committee

2014-2015

School of Kinesiology & Health Science Graduate Executive Committee
School of Kinesiology & Health Science Honours and Awards Committee
School of Kinesiology & Health Science Graduate Seminar Coordinator, Health & Fitness Stream
School of Kinesiology & Health Science Nominating Committee

2013-2014

School of Kinesiology & Health Science Search Committee – Cardiovascular Physiologist, Asst. Professor
School of Kinesiology & Health Science Graduate Seminar coordinator, Health & Fitness Stream
School of Kinesiology & Health Science Nominating Committee
York University Sponsored Conference Organizer (112 attendees)
(Ontario Exercise Physiology Annual Winter Meeting 2014, Barrie, ON; 112 attendees)

2012-2013

School of Kinesiology & Health Science Library Committee

ADDITIONAL UNIVERSITY SERVICE

Planning committee to create a Centre for Innovation in Healthy Living	2021-Present
NSERC Undergraduate Student Research Award conference judge	08/2023
Institutional review panel: internal candidate selection for the J.P. Bickell Foundation	03/2023
School of Kinesiology & Health Science Tenure and Promotion Adjudication Committee	2022
School of Kinesiology & Health Science Tenure and Promotion Adjudication Committee	2022
Vivarium Per Diem Policy Group	2021

Vice President Research & Innovation, panel member NSERC Discovery Grant Information Session	05/2020
School of Kinesiology & Health Science Tenure and Promotion Adjudication Committee	03/2020
Focus Group, York University Strategic Entrepreneurship Planning	11/2019
Institutional review panel: internal candidate selection for the J.P. Bickell Foundation	10/2019
Institutional review panel: NSERC RTI internal candidates	09/2016
Institutional review panel: internal candidate selection for the J.P. Bickell Foundation	10/2015
York Orientation Day for incoming 1 st year students 'Passionate Professors' panel	09/2015
School of Kinesiology & Health Science High-school recruiting event	03/2015
Faculty of Graduate Studies CIHR MSc Scholarship Review Committee	03/2015
School of Kinesiology & Health Science Tenure and Promotion Adjudication Committee	2014-15
School of Kinesiology & Health Science OGS Scholarship Review Committee	04/2014
School of Kinesiology & Health Science High-school recruiting event	04/2014
NSERC USRA ranking committee	03/2014
Faculty of Graduate Studies NSERC MSc Scholarship Review Committee	03/2014
Faculty of Graduate Studies NSERC PhD Scholarship Review Committee	11/2013
School of Kinesiology & Health Science High-school recruiting event	04/2013
NSERC USRA ranking committee	01/2013
School of Kinesiology & Health Science OGS Scholarship Review Committee	12/2012

Updated – October 2024