

**I. CURRICULUM VITAE**

**A. FORMAL EDUCATION;**

**Postdoctoral Fellowship, Faculty of Applied Health Sciences, Brock University 2004-05**

**Ph.D., Department of Medicine, McMaster University 2000-04; Thesis:** “Dynamic and stable regulation of pyruvate dehydrogenase in human skeletal muscle”

**M.Sc., Department of Zoology, University of Guelph 1993-96; Thesis:** “Aspects of ketone body metabolism in goldfish, *Carassius auratus*”

**B.Sc., Department of Zoology, University of Guelph 1988-92; Specialized Honours Marine Biology (fish physiology and biochemistry)**

**B. ACADEMIC DISTINCTIONS AND AWARDS;**

**Natural Science and Engineering Research Council (NSERC) Postdoctoral Fellowship, 2004-05, \$40,000/yr**

**Louis Minden Scholarship in Health Sciences, McMaster University, 2002, \$3,000**

**Ontario Graduate Scholarship, 2001-2002, \$15,000/yr**

**Ontario Graduate Scholarship in Science and Technology (Heart and Stroke Foundation of Ontario), 2000, \$15,000**

**McMaster University Entrance Scholarship, 2000, \$2000**

**C. ACADEMIC POSITIONS HELD;**

**Associate Professor, Department of Health Sciences, Brock University, 2010-present**

**Assistant Professor, Department of Health Sciences, Brock University, 2005-2010**

**Teaching Assistant, Department of Medicine, McMaster University, 2000-04**

**Research Associate, Department of Zoology, University of Guelph, 1997-2000**

**Teaching Assistant, Department of Zoology, University of Guelph, 1993-96**

**D. CREATIVE/SCHOLARLY ACTIVITIES****\*STUDENTS UNDER MY SUPERVISION OR CO-SUPERVISION ARE BOLDED AND UNDERLINED\*****1. Publications (PRINCIPLE AUTHORS LISTED FIRST AND SENIOR AUTHORS LISTED LAST)****a) Books, case studies, monographs and chapters contributed to edited books****b) Papers in peer-refereed journals**

**Fajardo, VA, JS Mikhaeil, C Leveille, C Saint, PJ LeBlanc.** 2017. Cardiolipin content, linoleic acid composition, and tafazzin expression in response to skeletal muscle overload and unload stimuli. *Sci Rep* [accepted SREP-16-46372B].

Longo AB, PJ Sullivan, SJ Peters, ***PJ LeBlanc***, GR Wohl, WE Ward. 2017. Lifelong intake of flaxseed or menhaden oil to provide varying n-6 to n-3 PUFA ratios modulate bone microarchitecture during growth, but not after OVX in Sprague-Dawley rats. *Mol Nutr Food Res* [epub ahead of print].

Sacco SM, **C Saint, PJ LeBlanc,** WE Ward. 2017. Maternal consumption of hesperidin and naringin flavones exert transient effects to tibial bone structure in female CD-1 offspring. *Nutrients* 9:E250.

**Fajardo, VA, N Trojanowski,** LM Castelli, PM Miotto, **F Amoye,** WE Ward, AR Tupling, ***PJ LeBlanc.*** 2017. Saturation of SERCA's lipid annulus may protect against its thermal inactivation. *Biochem Biophys Res Commun* 484:456.

Sacco SM, **C Saint,** AB Longo, CB Wakefield, PL Salmon, ***PJ LeBlanc,*** WE Ward. 2017. Repeated irradiation from micro-computed tomography scanning at 2, 4, and 6 months of age does not induce damage to tibial bone microstructure in male and female CD-1 mice. *Bonekey Rep* 6:855.

Snook LA, RE MacPherson, CM Monaco, S Frendo-Cumbo, L Castellani, WT Peppler, ZG Anderson, SL Buzelle, ***PJ LeBlanc,*** GP Holloway, DC Wright. 2016. Prior exercise training blunts short term high fat diet induced weight gain. *Am J Physiol* 311:R315.

Miotto, PM, LM Castelli, **F Amoye,** WE Ward, ***PJ LeBlanc.*** 2015. High saturated fat diet alters the lipid composition of triacylglycerol and polar lipids in the femur of dam and offspring rats. *Lipids* 50:605.

**Fajardo, VA, L McMeekin, C Saint, PJ LeBlanc.** 2015. Cardiolipin linoleic acid content and mitochondrial cytochrome c oxidase activity are associated in rat skeletal muscle. *Chem Phys Lipids* 187:50.

Ramos, SV, PC Turnbull, RE MacPherson, ***PJ LeBlanc,*** WE Ward, SJ Peters 2015. Changes in mitochondrial PLIN3 and PLIN5 protein content in rat skeletal muscle following endurance training and acute stimulated contraction. *Exp Physiol* 100:450.

- MacPherson, RE, LM Castelli, PM Miotto, S Frendo-Cumbo, A Milburn, BD Roy, **PJ LeBlanc**, WE Ward, SJ Peters. 2015. A maternal high fat diet has long-lasting effects on skeletal muscle lipid and PLIN protein content in rat offspring at young adulthood. *Lipids* 50:205.
- Hajna, S, PJ LeBlanc**, BE Faught, AT Merchant, J Cairney, J Hay, J Liu. 2014. Association between family eating behaviours and body composition in peri-adolescence: Results from a community-based study of school-aged children. *Can J Public Health* 105:e15.
- Herbst, EA, RE Macpherson, **PJ LeBlanc**, BD Roy, NH Jeoung, RA Harris, SJ Peters. 2014. Pyruvate dehydrogenase kinase-4 contributes to the recirculation of gluconeogenic precursors during post-exercise glycogen recovery. *Am J Physiol* 306:R102.
- Miotto, PM, LM Castelli, **F Amoye, PJ LeBlanc**, SJ Peters, BD Roy, WE Ward. 2013. Maternal high fat feeding does not have long-lasting effects on body composition and bone health in female and male wistar rat offspring at young adulthood. *Molecules* 18:15094.
- Farlinger, CM, AJ Lui, RC Harrison, **PJ LeBlanc**, SJ Peters, BD Roy. 2013. Extracellular hyperosmotic stress stimulates glucose uptake in incubated fast-twitch rat skeletal muscle. *Appl Physiol Nutr Metab* 38:605.
- Fajardo, VA, L McMeekin, A Basic**, G Lamb, R Murphy, **PJ LeBlanc**. 2013. Isolation of sarcolemmal plasma membranes by mechanically skinning rat skeletal muscle fibers for phospholipid analysis. *Lipids* 48:421.
- Hajna, S**, J Liu, **PJ LeBlanc**, BE Faught, AT Merchant, J Cairney, J Hay. 2012. Association between body composition and conformity to the recommendations of Canada's Food Guide and the Dietary Approaches to Stop Hypertension (DASH) diet in peri-adolescence. *Public Health Nutr* 15:1890.
- Holloway, GP, **VA Fajardo, L McMeekin, PJ LeBlanc**. 2012. Unsaturation of mitochondrial membrane lipids is related to palmitate oxidation in subsarcolemmal and intermyofibrillar mitochondria. *J Mem Biol* 245:165.
- Herbst, EA, EC Dunford, RA Harris, R Vandenboom, **PJ LeBlanc**, BD Roy, NH Jeoung, SJ Peters. 2012. Role of pyruvate dehydrogenase kinase 4 in regulating PDH activation during acute muscle contraction. *Appl Physiol Nutr Metab* 37:48.
- Fajardo, VA, L McMeekin, PJ LeBlanc**. 2011. Influence of phospholipid species on membrane fluidity: a meta-analysis for a novel phospholipid fluidity index. *J Mem Biol* 244:97.
- Wahi, G, **PJ LeBlanc**, JA Hay, BE Faught, D O'Leary, J Cairney. 2011. Metabolic syndrome in children with and without developmental coordination disorder. *Res Dev Disabil* 32:2785.

- Love, LK, **PJ LeBlanc**, JG Inglis, NS Bradley, J Choptiany, GJF Heigenhauser, SJ Peters. 2011. The relationship between human skeletal muscle pyruvate dehydrogenase phosphatase activity and muscle aerobic capacity. *J Appl Physiol* 111:427.
- Dunford, ECE, EAF Herbst, NH Jeoung, WJ Gittings, JG Inglis, R Vandenoorn, **PJ LeBlanc**, RA Harris, SJ Peters. 2011. Pyruvate dehydrogenase (PDH) activation during in vitro muscle contraction in PDH kinase 2 knockout mice: the effect of PDH kinase 1 compensation *Amer J Physiol* 300:R1487.
- Lau, BY, **VA Fajardo**, **L McMeekin**, SM Sacco, W Ward, BD Roy, SJ Peters, **PJ LeBlanc**. 2010. Influence of high fat from different dietary sources on bone mineral density, bone strength and bone fatty acid composition in rats. *Appl. Physiol. Nutr. Metab.* 35:598.
- Stefanyk, LE**, **N Coverdale**, BD Roy, SJ Peters, **PJ LeBlanc**. 2010. Skeletal muscle type comparison of subsarcolemmal mitochondrial membrane phospholipid fatty acid composition in rat. *J Mem Biol* 234:207.
- Cermak, NM, **PJ LeBlanc**, SJ Peters, R Vandenoorn, BD Roy. 2009. Effects of extracellular osmolality on metabolism in contracting mammalian skeletal muscle in vitro. *Appl Physiol Nutr Metab* 34:1055.
- Bigrigg, JK, GJF Heigenhauser, JG Inglis, **PJ LeBlanc**, SJ Peters. 2009. Carbohydrate re-feeding after a high-fat diet rapidly reverses the adaptive increase in human skeletal muscle PDK kinase activity. *Am J Physiol* 297:R885.
- Gurd, BJ, SJ Peters, GJF Heigenhauser, **PJ LeBlanc**, TJ Doherty, DH Paterson, JM Kowalchuk. 2009. Prior heavy exercise elevates pyruvate dehydrogenase activity and muscle oxygenation and speeds O<sub>2</sub> uptake kinetics during moderate exercise in older adults. *Am J Physiol* 297:R877.
- LeBlanc, PJ**, M Mulligan, A Antolic, L MacPherson, JG Inglis, D Martin, BD Roy, SJ Peters. 2008. Skeletal muscle type comparison of pyruvate dehydrogenase phosphatase activity and isoform expression: effects of obesity and endurance training. *Am J Physiol* 295:R1224.
- Bradley, N, GJF Heigenhauser, BD Roy, E Staples, JG Inglis, **PJ LeBlanc**, SJ Peters. 2008. The acute effects of differential dietary fatty acids on human skeletal muscle pyruvate dehydrogenase activity. *J Appl Physiol* 104:1.
- Gurd, BJ, SJ Peters, GJF Heigenhauser, **PJ LeBlanc**, TJ Doherty, DH Paterson, JM Kowalchuk. 2008. O<sub>2</sub> uptake kinetics and pyruvate dehydrogenase activity and muscle deoxygenation in young and older adults during the transition to moderate-intensity exercise. *Am J Physiol* 294:R577.
- LeBlanc, PJ**, RA Harris, SJ Peters. 2007. Skeletal muscle fiber-type comparison of pyruvate dehydrogenase phosphatase activity and isoform expression in fed and food deprived rats. *Am J Physiol* 292:E571.

- Antolic, A, RM Harrison, C Farlinger, NM Cermak, SJ Peters, **PJ LeBlanc**, BD Roy. 2007. The effect of extracellular osmolality on cell volume and resting metabolism in mammalian skeletal muscle. *Am J Physiol Regul Integr Comp Physiol* 292:R1994.
- Gurd, BJ, SJ Peters, GJF Heigenhauser, **PJ LeBlanc**, TJ Doherty, DH Paterson, JM Kowalchuk. 2006. Prior heavy exercise elevates pyruvate dehydrogenase activity and speeds VO<sub>2</sub> kinetics during subsequent moderate-intensity exercise in healthy young adults. *J Physiol* 577:985.
- Stellingwerff, T, **PJ LeBlanc**, MG Hollidge, GJF Heigenhauser, LL Spriet. 2006. Hyperoxia decreases muscle glycogenolysis, lactate production and lactate efflux during steady state exercise. *Am J Physiol Endocrinol Metab* 290:E1180.
- Bystriansky, JS, **PJ LeBlanc**, JS Ballantyne. 2006. Anaesthetization of Arctic charr *Salvelinus alpinus* (L.) with tricaine methanesulphonate or 2-phenoxyethanol for immediate blood sampling. *J Fish Biol* 69:613.
- Miller, BF, MI Lindinger, JA Fattor, JA Jacobs, **PJ LeBlanc**, M Duong, GJF Heigenhauser, GA Brooks. 2005. Hematological and acid-base changes in men during prolonged exercise with and without sodium-lactate infusion. *J Appl Physiol* 98:856.
- Stellingwerff, T, LR Glazier, MJ Watt, **PJ LeBlanc**, GJF Heigenhauser, LL Spriet. 2004. Effects of hyperoxia on skeletal muscle carbohydrate metabolism during transient and steady state exercise. *J Appl Physiol* 98:250.
- LeBlanc, PJ**, KR Howarth, MJ Gibala, GJF Heigenhauser. 2004. The effects of seven weeks of endurance training on human skeletal muscle metabolism during submaximal exercise. *J Appl Physiol* 97:2148.
- Peters, SJ and **PJ LeBlanc**. 2004. Metabolic aspects of low carbohydrate diets and exercise. *Nutr Metab (Lond)* 1:7.
- Watt, MJ, GJF Heigenhauser, **PJ LeBlanc**, JG Inglis, LL Spriet, SJ Peters. 2004. Rapid upregulation of pyruvate dehydrogenase kinase activity in human skeletal muscle during prolonged exercise. *J Appl Physiol* 97:1261.
- Howarth, KR, **PJ LeBlanc**, GJF Heigenhauser, MJ Gibala. 2004. The effects of endurance training on muscle TCA cycle metabolism during exercise in humans. *J Appl Physiol* 97:579.
- LeBlanc, PJ**, SJ Peters, RJ Tunstall, D Cameron-Smith, GJF Heigenhauser. 2004. Effects of aerobic training on pyruvate dehydrogenase and pyruvate dehydrogenase kinase in human skeletal muscle. *J Physiol* 557(2):559.
- LeBlanc, PJ**, ML Parolin, NL Jones, GJF Heigenhauser. 2002. Effects of respiratory alkalosis on human muscle metabolism at the onset of submaximal exercise. *J Physiol* 544(1):303.

**LeBlanc, PJ**, M Obbard, BJ Battersby, AK Felskie, L Brown, PA Wright, JS Ballantyne. 2001. Correlations of plasma lipid metabolism with hibernation and lactation in wild black bears, *Ursus americanus*. *J Comp Physiol [B]* 171(4):327.

**LeBlanc, PJ** and JS Ballantyne. 2000. Maximal enzyme activities and subcellular distribution of enzymes of ketone body metabolism in liver and kidney of goldfish, *Carassius auratus*. *J Exp Zool* 286(4):434.

Wright, PA, M Obbard, BJ Battersby, AK Felskie, L Brown, **PJ LeBlanc**, JS Ballantyne. 1999. Lactation during hibernation in wild black bears: effects on plasma amino acids and nitrogen-end products. *Physiol Biochem Zool* 72(5):597.

**LeBlanc, PJ**, T Gillis, JS Ballantyne. 1995. Metabolic organization of liver and somatic muscle of landlocked sea lamprey, *Petromyzon marinus*, during the spawning migration. *Can J Zool* 73: 916.

**LeBlanc, PJ** and JS Ballantyne. 1993.  $\beta$ -hydroxybutyrate dehydrogenase in teleost fish. *J Exp Zool*. 267:356.

**c) The judgements of scholars through letters of reference or reviews of the candidate's work, particularly of senior scholars in the same and cognate disciplines**

2007-Present	External Grant Reviewer, Discovery Grants, Natural Sciences and Engineering Research Council
2016-Present	Member, College of Reviewers, Canadian Institutes of Health Research
2012-Present	Grant Review Committee Member, Biomedical Establishment Grants and Development/Innovative Grants, Nova Scotia Health Research Foundation
2017	Member, Musculoskeletal Health Expert Committee, 2017 Innovation Fund Competition, Canadian Foundation for Innovation
2012-2015	Grant Review Committee Member, Cell Biology & Mechanisms of Disease, Canadian Institutes of Health Research
2012	External Grant Reviewer, Barth Syndrome Foundation

**d) Published refereed conference proceedings (e.g., refereed published abstracts, etc.)**

Longo AB, SJ Peters, **PJ LeBlanc**, GR Wohl, WE Ward. 2016. Long-term intake of n-6 and n-3 fatty acids, in varying ratio and source, modulate bone microarchitecture during growth but not after ovariectomy. *Appl Physiol Nutr Metab* 41(5):S24.

Saint C, M Zibamanzarmofrad, SM Sacco, WJ Gittings, R Vandenboom, WE Ward, **PJ LeBlanc**. 2015. Tibial geomorphometry indicates stronger bones in *mdx* mice at 10 and 20 weeks of age. *J Bone Miner Res* 30(Suppl 1):S1.

**Trojanowski, N**, LM Castelli, PM Miotto, WE Ward, **PJ LeBlanc**. 2014. High saturated fat diet alters skeletal muscle phospholipid composition and increases SERCA activity. *FASEB J* 28:895.2.

Miotto, PM, LM Castelli, **PJ LeBlanc**, SJ Peters, BD Roy, WE Ward. 2014. Maternal high fat feeding alters bone lipid content at weaning without long-lasting effects on bone lipid content and bone strength in male offspring at young adulthood. *FASEB J* 28:1033.7.

MacPherson, REK, LM Castelli, PM Miotto, S Frendo-Cumbo, A Milburn, BD Roy, **PJ LeBlanc**, WE Ward, SJ Peters. 2014. A maternal high fat diet has long-lasting effects on skeletal muscle lipid and PLIN protein content in rat offspring at young adulthood. *FASEB J* 28:1162.7.

Longo, AB, **PJ LeBlanc**, SJ Peters, WE Ward. 2014. Supplementation with beetroot juice does not preserve whole body or site-specific bone mineral density measured by dual energy X-rat absorptiometry in the ovariectomized rat. *Appl Physiol Nutr Metab* 39(5):626.

Longo, AB, **PJ LeBlanc**, SJ Peters, WE Ward. 2013. Effect of 6-week supplementation with concentrated beetroot juice on body weight and composition in the ovariectomized rat model of postmenopausal osteoporosis. *Appl Physiol Nutr Metab* 38(10):1055.

Ramos, SV, REK MacPherson, PC Turnbull, KN Bott, **PJ LeBlanc**, WE Ward, SJ Peters. 2013. Increased PLIN5 content in rat isolated skeletal muscle mitochondria after contraction. *Appl Physiol Nutr Metab* 38(10):1071.

**Amove, F**, LM Castelli, PM Miotto, REK MacPherson, BD Johnston, **A Basic, N Trojanowski**, BD Roy, WE Ward, **PJ LeBlanc**. 2013. Impact of maternal high saturated fat diet on bone lipid content in weanling and 3 month old offspring. *FASEB J* 27:1b415.

**Zibamanzarmofrad, M, A Basic**, J Doering, EM Schmelz, RW Grange, **PJ LeBlanc**. 2013. Impact of sphingomyelin-supplemented diet on phospholipid composition in diaphragm of *mdx* mice. *FASEB J* 27:1b416.

Choptiany, J, REK MacPherson, **PJ LeBlanc**, SJ Peters. 2013. Phosphorylation of rat skeletal muscle pyruvate dehydrogenase phosphatase in response to insulin stimulation. *FASEB J* 27:1208.1.

Castelli, LM, PM Miotto, REK MacPherson, BD Johnston, **PJ LeBlanc**, SJ Peters, BD Roy, WE Ward. 2013. Maternal high fat feeding results in higher fat mass and bone mineral content in weanling but not 3 month old female offspring. *FASEB J* 27:244.7.

- Miotto, PM, LM Castelli, REK MacPherson, BD Johnston, **PJ LeBlanc**, BD Roy, SJ Peters, WE Ward. 2013. Maternal high fat diet results in altered body composition in first generation male offspring at weaning but not adulthood. *FASEB J* 27:244.8.
- Roberts, R, E Euler, WE Ward, **PJ LeBlanc**, M Tarnopolsky, BD Roy. 2013. Higher intake of low-fat milk combined with 12 weeks of endurance training does not result in lower fat mass and higher lean mass. *FASEB J* 27:1b777.
- Fajardo, VA, L McMeekin, A Basic, B Appel**, REK MacPherson, **PJ LeBlanc**. 2011. Sarcolemmal membrane lipid composition from mechanically skinned skeletal muscle fibres. *Appl Physiol Nutr Metab* 36:S316.
- Herbst, EA, REK MacPherson, **PJ LeBlanc**, BD Roy, NH Jeoung, RA Harris, SJ Peters. 2011. The role of pyruvate dehydrogenase kinase (PDK)-4 in postexercise glycogen recovery. *Appl Physiol Nutr Metab* 36:S327.
- Darling, RLA, C Vandommele, **PJ LeBlanc**, SJ Peters, D Dardevet, BD Roy. 2011. Protein turnover and regulation of the mTOR/p70s6 kinase pathway in rat skeletal muscle during osmotic stress. *Appl Physiol Nutr Metab* 36:S311.
- Dunford, ECE, EAF Herbst, WJ Gittings, R Vandenboom, **PJ LeBlanc**, BD Roy, NH Jeoung, RA Harris, SJ Peters. 2010. PDH kinase 2 ablation causes upregulation of PDH kinase 1 mediated by hypoxia inducible factor (HIF)-1. *Appl Physiol Nutr Metab* 35:S25.
- LeBlanc, PJ**, GP Holloway, **L McMeekin**, and **VA Fajardo**. 2010. Skeletal and cardiac muscle subsarcolemmal and intermyofibrillar mitochondrial palmitate oxidation: potential influence of membrane lipid structure. *Appl Physiol Nutr Metab* 35:S54.
- Lui, AJ, RLA Darling, C Vandommele, REK MacPherson, SJ Peters, **PJ LeBlanc**, BD Roy. 2010. Time course of hyperosmotic-induced changes in glucose uptake signalling in mammalian skeletal muscle. *Appl Physiol Nutr Metab* 35:S60.
- McMeekin, L, VA Fajardo, N Coverdale, S Hajna, LE Stefanyk**, BD Roy, SJ Peters, **PJ LeBlanc**. 2010. Influence of high-fat diet on subsarcolemmal and intermyofibrillar mitochondrial membrane phospholipid fatty acid composition: examining the conformer-regulator paradigm. *Appl Physiol Nutr Metab* 35:S69.
- Hajna, S**, TJ Wade, **PJ LeBlanc**. 2009. Concordance between child and parent responses to a brief dietary intake survey. *Am J Epi* 169:S121.
- Dunford, E, R Vandenboom, **PJ LeBlanc**, BD Roy, NH Jeoung, RA Harris, SJ Peters. 2009. Pyruvate dehydrogenase (PDH) subunits, PDH kinase isoform content, and PDH activity during contraction in mice lacking PDH kinase 2. *Appl Physiol Nutr Metab* 34:S25.
- Fitzgibbon, LK**, R Battersby, D Heywood, **PJ LeBlanc**, P Klentrou, DD O'Leary. 2008. Pubertal maturation and blood lipids in youth. *Appl Physiol Nutr Metab* 33:S32.



- Love, LK, PJ LeBlanc**, GJF Heigenhauser, JG Inglis, BD Roy, NS Bradley, SJ Peters. 2008. Human skeletal muscle pyruvate dehydrogenase phosphatase activity: the effect of aerobic capacity. *Appl Physiol Nutr Metab* 33:S59.
- Mulligan, MJ, SJ Peters, **PJ LeBlanc**, BD Roy. 2008. Skeletal muscle recovery from osmotic stress and its influence on glucose uptake. *Appl Physiol Nutr Metab* 33:S69.
- Stefanyk, LE, S Hajna**, BD Roy, SJ Peters, **PJ LeBlanc**. 2008. Phospholipid fatty acid composition of skeletal muscle sarcolemmal and t-tubule membranes. *Appl Physiol Nutr Metab* 33:S95.
- Farlinger, CM, RC Harrison, MJ Mulligan, **PJ LeBlanc**, SJ Peters, BD Roy. 2007. Extracellular hyperosmolality increases glucose uptake and alters muscle metabolism in mammalian skeletal muscle. *Appl Physiol Nutr Metab* 32:S29.
- Harrison, RC, CM Farlinger, MJ Mulligan, **PJ LeBlanc**, SJ Peters, BD Roy. 2007. The influence of cell volume on glycogen and glycogen synthase in resting skeletal muscle. *Appl Physiol Nutr Metab* 32:S41.
- Martin, DM, E Dunford, R Vandenboom, **PJ LeBlanc**, BD Roy, RA Harris, SJ Peters. 2007. Pyruvate dehydrogenase (PDH) activity in response to skeletal muscle contraction at two stimulation frequencies in PDH kinase 2 knockout mice. *Appl Physiol Nutr Metab* 32:S59.
- Stefanyk, LE, N Coverdale**, BD Roy, SJ Peters, **PJ LeBlanc**. 2007. Skeletal muscle fibre type comparison of mitochondrial and whole-tissue phospholipids and fatty acids. *Appl Physiol Nutr Metab* 32:S84.
- Martin, DM, RA Harris, R Vandenboom, **PJ LeBlanc**, BD Roy, NH Jeoung, SJ Peters. 2007. Pyruvate dehydrogenase (PDH) activity in response to skeletal muscle contraction at two stimulation frequencies in PDH kinase 4 knockout mice. *FASEB J* 21:949.7.
- Farlinger, CM, RC Harrison, A Antolic, SJ Peters, **PJ LeBlanc**, BD Roy. 2007. Extracellular osmotic stress alters free glucose concentrations in resting mammalian skeletal muscle. *FASEB J* 21:949.2.
- Harrison, RC, CM Farlinger, A Antolic, MJ Mulligan, KM Willmott, SJ Peters, **PJ LeBlanc**, BD Roy. 2007. Hyper-osmotic stress induced alterations in muscle metabolism are reversed within 45 min of return to iso-osmotic conditions. *FASEB J* 21:949.1.
- Antolic, A, **PJ LeBlanc**, SJ Peters, R Vandenboom, BD Roy. 2006. Extracellular osmotic stress does not alter glycerol concentrations in resting mammalian skeletal muscle. *Appl Physiol Nutr Metab* 31:S1.

- Cermak, NM, SJ Peters, R Vandenboom, **PJ LeBlanc**, BD Roy. 2006. Changes in skeletal muscle cell volume alters carbohydrate metabolism in contracting skeletal muscle. *Appl Physiol Nutr Metab* 31:S10.
- MacPherson, LL, **PJ LeBlanc**, JG Inglis, BD Roy, SJ Peters. 2006. Adaptation of skeletal muscle pyruvate dehydrogenase kinase in response to starvation in mitochondrial subpopulations. *Appl Physiol Nutr Metab* 31:S55.
- LeBlanc, PJ**, M Mulligan, A Antolic, LL MacPherson, JG Inglis, D Martin, BD Roy, SJ Peters. 2006. Skeletal muscle pyruvate dehydrogenase phosphatase: effects of obesity and endurance training. *FASEB J* 20:A815.
- Roy, BD, SJ Peters, **PJ LeBlanc**, A Antolic. 2006. Extracellular hyper-osmolality increases resting skeletal muscle lactate in mammalian skeletal muscle. *FASEB J* 20:A816.
- Stellingwerff, T, **PJ LeBlanc**, MG Hollidge, GJF Heigenhauser, LL Spriet. 2006. Hyperoxia decreases muscle glycogenolysis, pyruvate and lactate production during steady state exercise. *Med Sci Sport Exer* 38: S16.
- LeBlanc, PJ**, RA Harris, GJF Heigenhauser, SJ Peters. 2005. Pyruvate dehydrogenase phosphatase activity in rat skeletal muscle. *Can J Appl Physiol* 30:S48.
- Antolic, A, NM Cermak, RC Harrison, SJ Peters, **PJ LeBlanc**, BD Roy. 2005. Acute alterations in skeletal muscle cell volume using an in vitro rodent model. *Can J Appl Physiol* 30:S5.
- Gurd, BJ, SJ Peters, **PJ LeBlanc**, TJ Doherty, GJF Heigenhauser, DH Paterson, JM Kowalchuk. 2005. Prior heavy-intensity exercise elevates pyruvate dehydrogenase activity and speeds VO<sub>2</sub> kinetics during moderate-intensity exercise. *Can J Appl Physiol* 30:S34.
- Stellingwerff, T, LR Glazier, MJ Watt, **PJ LeBlanc**, GJF Heigenhauser, LL Spriet. 2005. Effects of hyperoxia on skeletal muscle carbohydrate metabolism during transient and steady-state exercise. *Acta Physiol Scand* 183: A409.
- LeBlanc, PJ**, SJ Peters, RJ Tunstall, D Cameron-Smith, GJF Heigenhauser. 2003. Effects of aerobic training on pyruvate dehydrogenase and pyruvate dehydrogenase kinase in human skeletal muscle. *Can J Appl Physiol* 28:S75.
- LeBlanc, PJ**, KR Howarth, MJ Gibala, GJF Heigenhauser. 2003. Effects of aerobic training on human skeletal muscle metabolism at rest and during exercise. *Med Sci Sport Exerc* 35:S211.
- Stellingwerff, T, LR Glazier, MJ Watt, **PJ LeBlanc**, GJF Heigenhauser, LL Spriet. 2003. Effects of hyperoxia on skeletal muscle PDH activation during the onset and steady state of aerobic exercise. *FASEB J* 17:A956.

Howarth, KR, *PJ LeBlanc*, GJF Heigenhauser, M.J. Gibala. 2002. Aerobic training attenuates skeletal muscle anaplerosis during exercise in humans. *FASEB J* 16:A31.

*LeBlanc, PJ*, ML MacDonald, NL Jones, GJF Heigenhauser. 2001. Effects of respiratory alkalosis on human skeletal muscle metabolism during submaximal exercise. *Can J Appl Physiol* 26:494.

**e) Contributions to panels, workshops and clinics**

2016 – deliver a workshop at the 14<sup>th</sup> Annual Canadian Society of Hospital Medicine Conference (September 15-18, Hamilton, ON)

2016 – head organizer for the annual Ontario Exercise Physiology conference (February 26-28, Innisfil, ON)

**f) Consulting with government, related professionals, and agencies, or preparation of instructional clinical, curriculum or policy materials for such agencies.**

2015 – Expert Committee Member for Canadian Society of Hospital Medicine and wrote a chapter (General Clinical Skills – Nutrition and the Hospitalized Patient) in Core Competencies In Hospital Medicine – Care of the Medical Inpatient (Phase 1)

**g) Editorial and refereeing duties**

2016-Present            Reviewer (1 manuscript) for *Toxicology Research*

2015-Present            Reviewer (1 manuscript) for *PLOS One*

2015-Present            Reviewer (1 manuscript) for *Lipids*

2015-Present            Reviewer (1 manuscript) for *Journal of Agriculture and Food Chemistry*

2015-Present            Reviewer (1 manuscript) for *Molecular Nutrition and Food Research*

2014-Present            Reviewer (1 manuscript) for *Archives of Medical Science*

2014                        Textbook review (Perspectives in Nutrition 1<sup>st</sup> Can Ed.) for *McGraw-Hill Ryerson*

2013-Present            Reviewer (1 manuscript) for *Hormone and Metabolic Research*

2012-Present            Reviewer (1 manuscript) for *Nutrition and Metabolism*

2012                        Textbook review (Nutrition, Science and Application 1<sup>st</sup> Can Ed.) for *John Wiley & Sons Canada*

- 2011 Textbook review (Understanding Nutrition 1<sup>st</sup> Can Ed.) for *Nelson Education*
- 2010-Present Reviewer (2 manuscripts) for the *International Journal of Food Science and Nutrition*
- 2010 Textbook review (Nutrition: Concepts and Controversies 2<sup>nd</sup> Can Ed.) for *Nelson Education*
- 2010 Textbook review (Visualizing Nutrition) for *John Wiley & Sons Canada*
- 2010 Textbook review (Nutrition Science and Applications) for *John Wiley & Sons Canada*
- 2010 Textbook review (The Science of Nutrition 1<sup>st</sup> Can Ed.) for *Pearson Education*
- 2009-Present Reviewer (1 manuscript) for the *Diabetes*
- 2009 Media content review (My Nutrition Lab post-live website check) for *Pearson Education*
- 2009 Textbook reviews (The Science of Nutrition; Nutrition: From Science to You) for *Pearson Education*
- 2008 Textbook review (Nutrition for Healthy Living) for *McGraw-Hill Ryerson*
- 2007-Present Reviewer (4 manuscript) for the *Applied Physiology, Nutrition, and Metabolism*
- 2007 Textbook review (Nutrition - A Functional Approach, 2<sup>nd</sup> Canadian Edition) for *Pearson Education*
- 2006-Present Reviewer (5 manuscripts) for the *American Journal of Physiology*
- 2006-Present Reviewer (2 manuscripts) for *Journal of Applied Physiology*
- 2006-Present Reviewer (8 manuscripts) for the *European Journal of Applied Physiology*
- 2006-Present Reviewer (2 manuscripts) for the *Journal of Physiology*
- 2005-Present Reviewer (1 manuscript) for the *Journal of Fish Biology*

- h) The creation, performance, direction, programming, design, and staging of creative works for the public, or curation of exhibitions, particularly when recognized by competent external peers**
- i) Adjudicating festivals and competitions, master classes, consulting on curricula, workshops at the post-secondary level or with professional orchestras, choirs, theatres, galleries, or professional residencies**

2017	Adjudicate NSERC graduate student awards, Faculty of Graduate Studies, Brock University
2016	Adjudicate CIHR, NSERC, and QEII-GSST graduate student awards, Faculty of Graduate Studies, Brock University
2014	Adjudicate CIHR, NSERC, and QEII-GSST graduate student awards, Faculty of Graduate Studies, Brock University
2011	Adjudicate internal Brock University Advancement Fund and Brock SSHRC Institutional Grant, Brock Research, Brock University
2006	Adjudicate abstracts for Iovate Award, Ontario Exercise Physiology Conference, hosted by Brock University
2006	Adjudicate oral presentations for Mapping New Knowledge Graduate Student and Faculty Research Conference, Brock University
2005-2007	Ontario Graduate Scholarship Adjudication Committee, Faculty of Applied Health Sciences, Brock University

- j) The development of software, hardware or equipment**
- k) Scholarly contributions to pedagogy**
- l) Scholarship as evidenced by the candidate's depth and breadth of knowledge and general contributions to the research life of the University**

*LeBlanc, P.J.* (2004) Dynamic and stable regulation of pyruvate dehydrogenase in human skeletal muscle. McMaster University. Unpublished Doctoral Dissertation.

*LeBlanc, P.J.* (1996) Aspects of ketone body metabolism in goldfish (*Carassius auratus*). University of Guelph. Unpublished Master Dissertation.

- m) Other publications demonstrating a high quality of scholarship with significant public impact**
- n) Other evidence appropriate to the discipline.**

*Non-published refereed abstracts:*

Wade, TJ, J Cairney, **PJ LeBlanc**, J Liu, DD O’Leary. 2009. Second hand smoking and child blood pressure, Pediatric Academic Societies Annual Meeting, Baltimore, MD, poster presentation.

Wade, TJ, J Cairney, DD O’Leary, E Allan, P Millar, D Zinga, K Shoemaker, B Roy, J Liu, **PJ LeBlanc**, P Klentrou, C Hood, J Hay. 2009. Social determinants of high blood pressure in children: The HBEAT study. Pediatric Academic Societies Annual Meeting, Baltimore, MD, poster presentation.

Hajna, S, **PJ LeBlanc**, J Liu. 2009. Differences in daily nutrient intakes among normal weight, overweight, and obese preadolescent children. Canadian Society for Epidemiology and Biostatistics Joint Conference, Ottawa, ON, poster presentation.

Hajna, S, TJ Wade, **PJ LeBlanc**. 2009. Concordance between child and parent responses to a brief dietary intake survey. Society for Epidemiological Research Annual Meeting, Anaheim, CA, poster presentation.

MacPherson, LL, **PJ LeBlanc**, JG Inglis, BD Roy, SJ Peters. 2006. Adaptation of skeletal muscle pyruvate dehydrogenase kinase in response to starvation in mitochondrial subpopulations. Presented at Experimental Biology. San Francisco, CA. April. 1-5 (late breaking abstract).

2. **Work submitted for publication**

3. **Patents applied for or received**

4. **Grants obtained**

a) **Internal grants**

Granting Agency	Project Title	Amount	Duration	Recipient
AHSC BUAF Matching Funds	Do acute myeloid leukemia patient hematopoietic cells have vulnerable cardiolipin fatty acid composition?	\$2,500	2016	Dr. PJ LeBlanc
BUAF Seed Grant	Do acute myeloid leukemia patient hematopoietic cells have vulnerable cardiolipin fatty acid composition?	\$5,000	2016	Dr. PJ LeBlanc
Brock University Transdisciplinary Spaces Funding	Brock-Niagara Centre for Health and Well-Being	\$850,000	2012-2017	Dr. T Wade (Co-Lead, PI), Dr. DD O’Leary (Co-

Initiative				Lead, PI), Dr. MP Law (Co-Lead, PI), 5 other PI, Dr. PJ LeBlanc and 9 others (CoI)
Brock University Experience Works	Development of a nutrient data base using the Canadian Nutrient File	\$4,506	2012	Dr. W Ward (PI), Dr. PJ LeBlanc (Co-PI)
BUAF Seed Grant	Levels of pro-vitamin D and their association with cellular immunity against tuberculosis in a sample of healthy Mexican agricultural workers in the Niagara Region.	\$4,800	2007-2008	Dr. PJ LeBlanc Dr. A Sanchez (COI)
Brock International Collaborative Funding Initiative	Role of pyruvate dehydrogenase kinase isoforms in regulating glucose metabolism in mammalian skeletal muscle.	\$1,000	2007-2008	Dr. PJ LeBlanc
Brock University Startup Funds	Muscle membrane structure and function	\$20,000	2005-2006	Dr. PJ LeBlanc

**b) Referred external grants**

Granting Agency	Project Title	Amount	Duration	Recipient
Canadian Institutes of Health Research Student Summership Award	Role of cardiolipin content and fatty acid composition on skeletal muscle growth and atrophy.	\$5,000	Not funded	K Kean (primary applicant); PJ LeBlanc (primary supervisor); VA Fajardo (secondary supervisor)
Canadian Institutes of Health Research Catalyst Grant	Effects of GSK3 inhibition and calmodulin regulation on skeletal muscle health.	\$100,000	Not funded	PJ LeBlanc; VA Fajardo (CoA)
Canadian Institutes of Health Research Project Grant	Membrane lipids as contributors to muscle degeneration in a rodent model of Duchenne muscular dystrophy.	\$675,000	Not funded	PJ LeBlanc; VA Fajardo (COI)
Natural Science and	Influence of	\$40,000	2016-2018	PJ LeBlanc

Engineering Research Council Discovery Development Grant	polyunsaturated fatty acids on musculoskeletal form and function.			
Natural Science and Engineering Research Council Research Tools and Instruments	Infrastructure to support ex vivo analysis of hard tissue	\$25,171	2015	WE Ward (PI); PJ LeBlanc and SJ Peters (COI)
Canada Foundation for Innovation	Developing strategies for optimal musculoskeletal health using a suite of in vivo imaging infrastructure	\$883,976	Not funded	WE Ward (PI); PJ LeBlanc, SJ Peters, R Vandenboom, and D O'Leary (COI)
Canadian Institutes of Health Research Operating Grant	Programming of bone development through early life exposure to soy isoflavones and folic acid	\$499,876	2013-2017	WE Ward (PI); PJ LeBlanc (Co-PI)
Natural Science and Engineering Research Council Research Tools and Instruments	Dissecting microscope with imaging capability	\$27,160	2011	PJ LeBlanc (PI); BD Roy, and R Vandenboom (COI)
Natural Science and Engineering Research Council Discovery Grant	Influence of cellular membrane structure on biophysical and metabolic function of skeletal muscle	\$135,000	2010-2015	PJ LeBlanc
Heart and Stroke Foundation of Ontario	Social determinants of hypertension in children	\$504 860	2007-2012	T Wade (PI); J Cairney and D O'Leary (Co-PI); PJ LeBlanc and 6 others (COI)
Canadian Institutes of Health Research	Establishing the cardiovascular risk trajectory of children with developmental coordination disorder	\$548 423	2007-2010	J Cairney (PI); J Hay and B Faight (Co-PI); PJ LeBlanc and 3 others (COI)
Natural Science and Engineering Research Council Discovery Grant	Influence of nutrition and physical activity on skeletal muscle membrane structure and function	\$40,500	2006-2009	PJ LeBlanc
Heart and Stroke Foundation of Ontario	The effects of body composition on arterial stiffness and baroreflex function in children	\$95,870	2006-2008	D O'Leary (PI); PJ LeBlanc, B Falk, and P Kentrou (COI)



Natural Science and Engineering Research Council Research Tools and Instruments	Gas chromatography system	\$43,400	2006	PJ LeBlanc (PI); SJ Peters , BD Roy, and G Tattersall (COI)
Natural Science and Engineering Research Council Research Tools and Instruments	Tissue lyophilizer system	\$14,736	2006	SJ Peters (PI); PJ LeBlanc and BD Roy (COI)

**c) Consultantships or contracts**

**5. Work in Progress**

**E. TEACHING ACTIVITIES**

**1. Courses Taught**

2014-present	HLSC 2P92, Nutrition in Health Care, Brock University (avg. enroll. 85/yr)
2013	AHSC 5P00, Philosophical and Methodological Issues in Applied Health Sciences Research Seminar, Brock University (avg. enroll. 15/yr)
2008	AHSC 5P90, Skeletal Muscle Physiology, Brock University (taught once, enroll. 3)
2005-present	HLSC 2P91, Nutrition, Brock University (avg. enroll. 140/yr)
2005-present	HLSC 3P93, Nutrition and Health, Brock University (avg. enroll. 60/y)
2005-present	HLSC 3P30 & 4P30, Directed Reading/Independent Studies, Brock University (mentored 10 students)
2005-present	HLSC 3P33, Internship, Brock University (mentored 2 students)

**2. Graduate and undergraduate students supervised (at Brock and other universities)**

2016	Ph.D. external examiner for Chantal Pileggi, Health Sciences, University of Auckland, New Zealand
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- 2016-present M.Sc. supervisor for Jennifer Wilkinson, Thesis Title TBA, Faculty of Applied Health Sciences, Brock University
- 2016-present M.Sc. supervisor for Sebastian Silvera, Thesis Title TBA, Faculty of Applied Health Sciences, Brock University
- 2016-present Postdoctoral supervisor for Val Andrew Fajardo, Faculty of Applied Health Sciences, Brock University  
**\*\*\*Recipient of a Postdoctoral Fellowship from the Natural Sciences and Engineering Research Council (NSERC)\*\*\***
- 2015 Ph.D. external examiner for Thanh Nguyen, Department of Medical Sciences, McMaster University
- 2015 Ph.D. internal-external examiner for Kiel Ormerod, Department of Biological Sciences, Brock University
- 2015 HLSC 4F90-Honours Thesis supervisor for Cameron Giles, Brock University
- 2014-present M.Sc. supervisor for Caitlin Saint, “Effects of a Supplemental Folic Acid Maternal Diet on Skeletal Muscle Function and Metabolism in Offspring”, Faculty of Applied Health Sciences, Brock University  
**\*\*\*Recipient of a Master’s Scholarship from the Canadian Institute of Health Research (CIHR)\*\*\***
- 2014-present M.Sc. committee member for Austin Cameron, “Investigating the effects of high-intensity interval training on baroreflex sensitivity”, Faculty of Applied Health Sciences, Brock University
- 2014-present M.Sc. committee member for Kirsten Bott, “The effects of a high fat diet on musculoskeletal health in aged male C57BL/6J mice”, Faculty of Applied Health Sciences, Brock University
- 2013-2015 M.Sc. supervisor for Natalie Trojanowski, “The role of membrane lipid composition on sarco(endo)plasmic calcium ATPase function in rat soleus muscle”, Faculty of Applied Health Sciences, Brock University  
**\*\*\*Recipient of a Master’s Scholarship from the Canadian Institute of Health Research (CIHR)\*\*\***
- 2013-2015 M.Sc. committee member for Stephen Klassen, “The influence of sex on the relationship between arterial mechanical properties and cardioagal baroreflex sensitivity”, Faculty of Applied Health Sciences, Brock University

- 2013-2015 M.Sc. committee member for Stephen Morris, “The effects of beta-adrenergic stimulation on post-tetanic potentiation of concentric force in fast skeletal muscle from wildtype and skMLCK devoid mice”, Faculty of Applied Health Sciences, Brock University
- 2013-2014 BIOL 4F90/4F91-Honours Thesis supervisor for Mary Lloyd, Brock University
- 2013-2014 BIOL 4F90/4F91-Honours Thesis supervisor for Nigel Kurgan, Brock University
- 2013-2014 HLSC 4F90-Honours Thesis supervisor for Ali Rezaee, Brock University
- 2012-2014 M.Sc. committee member for Sofhia Ramos, “Changes in mitochondrial PLIN3 and PLIN5 protein content in rat skeletal muscle following acute contraction and endurance training”, Faculty of Applied Health Sciences, Brock University
- 2012-2014 M.Sc. committee member for Mike Pryzbek, “The association of energy intake with body mass in children with and without probable developmental coordination disorder”, Faculty of Applied Health Sciences, Brock University
- 2012-present Ph.D. committee member for Amanda Longo, Title TBD, Faculty of Applied Health Sciences, Brock University
- 2012-2014 M.Sc. committee member for Laura Castelli, “Maternal high fat feeding: impact on female rat offspring body composition and bone health”, Faculty of Applied Health Sciences, Brock University
- 2012-2014 M.Sc. committee member for Paula Miotto, “Effect of a high fat maternal diet on body composition and bone development in male offspring”, Faculty of Applied Health Sciences, Brock University
- 2012-2014 M.Sc. committee member for David Dodington, “Dietary intakes and periodontal outcomes after sanative therapy”, Faculty of Applied Health Sciences, Brock University
- 2012-2013 BIOL 4F90/4F91-Honours Thesis supervisor for Natalie Trojanowski, Brock University
- 2012-2013 CHSC 4F90 -Honours Thesis supervisor for Foyinsola Amoye, Brock University

- 2012-2015 M.Sc. supervisor for Maral Zibamanzarmofrad, “The role of membrane lipid composition on acute and chronic muscle damage in the rodent model of Duchenne muscular dystrophy”, Faculty of Applied Health Sciences, Brock University
- 2011-2014 M.Sc. committee member for Casey Christoff, “Investigation into the correlation between molecular chaperones, mitochondrial antioxidant enzymes, and endothermic vertebrate longevity”, Faculty of Math and Sciences, Brock University
- 2011-2013 M.Sc. committee member for Becky Roberts, “Randomized control trial of milk products and physical activity on body composition and health in overweight young males”, Faculty of Applied Health Sciences, Brock University
- 2011 Ph.D. internal-external examiner for Nick Vesprini, Department of Biological Sciences, Brock University
- 2010-2013 M.Sc. supervisor for Admir Basic (withdrew), “The effect of a high-fat diet on the sarcolemmal lipid composition of mechanically skinned EDL fibres in rats”, Faculty of Applied Health Sciences, Brock University
- 2010-2013 M.Sc. committee member for Jon Choptiany, “Phosphorylation of skeletal muscle pyruvate dehydrogenase phosphatase enzymes in response to insulin stimulation”, Faculty of Applied Health Sciences, Brock University
- 2010-2011 BIOL 4F90/4F91-Honours Thesis supervisor for Brent Appel, Brock University
- 2010 Ph.D. internal-external examiner for Jon Collins, Department of Chemistry, Brock University
- 2009-2012 M.Sc. committee member for Cody Vandommele, “Regulation of protein turnover during hyper-osmotic stress in skeletal muscle”, Faculty of Applied Health Sciences, Brock University
- 2009-2011 M.Sc. committee member for Ryan Darling, “Protein turnover and regulation in rat skeletal muscle during in vitro hypo-osmotic stress”, Faculty of Applied Health Sciences, Brock University
- 2009-2011 M.Sc. supervisor for Val Andrew Fajardo, “Determining the influence of membrane lipid composition on membrane structural stability in skeletal muscle”, Faculty of Applied Health Sciences, Brock University  
**\*\*\*Recipient of a Master’s Scholarship from the Canadian Institute of Health Research (CIHR)\*\*\***

- 2009-2012 M.Sc. supervisor for Lauren McMeekin (withdrew), “Influence of high fat diet on subsarcolemmal and intermyofibrillar mitochondrial membrane phospholipid fatty acid composition in rat skeletal muscle”, Faculty of Applied Health Sciences, Brock University
- 2009-2011 M.Sc. committee member for Eric Herbst, “The role of pyruvate dehydrogenase kinase-4 in post-exercise glycogen recovery”, Faculty of Applied Health Sciences, Brock University
- 2009 Ph.D. pre-doctoral examination committee member for Ellen Robb, Department of Biological Sciences, Brock University
- 2008-2015 Ph.D. committee member for Amanda Lepp, “The role of miRNAs during caudal spinal cord regeneration in *Notophthalmus viridescens*”. Department of Biological Sciences, Brock University
- 2008-2011 M.Sc. committee member for Adrian Liu, “Time Course of Signaling Processes Involved with Extracellular Osmotic-Induced Glucose Uptake in Mammalian Skeletal Muscle”, Faculty of Applied Health Sciences, Brock University
- 2008-2010 M.Sc. co-supervisor for Samantha Hajna, “Influence of family eating environment on dietary status in overweight periadolescents”, Faculty of Applied Health Sciences, Brock University
- 2008-2009 BIOL 4F90/4F91-Honours Thesis supervisor for Val Andrew Fajardo, Brock University
- 2008-2009 CHSC 4F90- Thesis supervisor for Lauren McMeekin, Brock University
- 2008 Ph.D. pre-doctoral examination committee member for Nicolas Vesprini, Department of Biological Sciences, Brock University
- 2008 Ph.D. external thesis defence examiner for Graham Holloway, Department of Human Health and Nutritional Sciences, University of Guelph
- 2008 Ph.D. comprehensive examination committee member for Kerry Mullin, Department of Human Health and Nutritional Sciences, University of Guelph
- 2007-2009 M.Sc. committee member for Aaron Phillips, “The association between blood pressure and carotid artery distensibility in children”, Faculty of Applied Health Sciences, Brock University

- 2007-2009 M.Sc. committee member for Emily Dunford, “Pyruvate dehydrogenase activity in response to skeletal muscle contraction at two stimulation frequencies in pyruvate dehydrogenase kinase 2 knockout mice”, Faculty of Applied Health Sciences, Brock University
- 2007-2009 M.Sc. committee member for Timna Merion, Title TBD, Faculty of Applied Health Sciences, Brock University
- 2007-2008 CHSC 4F90- Thesis supervisor for Samantha Hajna, Brock University
- 2007 M.Sc. proposal defence chair for Joseph Tota, Faculty of Applied Health Sciences, Brock University
- 2007 M.Sc. thesis defence chair for Carma-Lynn Wiley, Faculty of Applied Health Sciences, Brock University
- 2007 M.Sc. proposal defence chair for Alexander Chapman, Faculty of Applied Health Sciences, Brock University
- 2007 BIOL 4P92-Library Research Essays supervisor for Cynthia Lykos, Brock University
- 2006-2009 M.Sc. co-supervisor for Lorenzo Love, “The effects of training status on PDP activity and PDP isoform expression in human skeletal muscle”, Faculty of Applied Health Sciences, Brock University
- 2006-2008 M.Sc. supervisor for Leslie Stefanyk, “Skeletal muscle comparison of whole tissue, cellular and subcellular membrane phospholipid fatty acids”, Faculty of Applied Health Sciences, Brock University  
**\*\*\*Recipient of a Master’s Scholarship from the Canadian Institute of Health Research (CIHR)\*\*\***
- 2006-2008 M.Sc. committee member for Matthew Mulligan, “Glucose dynamics in rat skeletal muscle: recovery from osmotic stress”, Faculty of Applied Health Sciences, Brock University
- 2007-2008 CHSC 4F90- Thesis supervisor for Nicole Coverdale, Brock University
- 2007-2008 CHSC 4F90- Thesis supervisor for Stephanie Sharpe, Brock University
- 2005-2008 M.Sc. committee member for Rosemarie Harrison, “The effects of elevated muscle fluid volume on indices of muscle damage following an

- acute bout of eccentric exercise”, Faculty of Applied Health Sciences, Brock University
- 2005-2007 M.Sc. committee member for Chris Farlinger, “The influence of skeletal muscle cell volume on the regulation of carbohydrate uptake and muscle metabolism”, Faculty of Applied Health Sciences, Brock University
- 2005-2007 M.Sc. committee member for Ryan Boyd, “Expression and function of endothelin and its receptors in vascular adventitial fibroblasts”, Faculty of Applied Health Sciences, Brock University
- 2004-2006 M.Sc. committee member for Laura MacPherson, “Adaptations of skeletal muscle pyruvate dehydrogenase kinase in response to food-restriction in mitochondrial subpopulations”, Faculty of Applied Health Sciences, Brock University
- 2003-2006 M.Sc. committee member for Anamaria Antolic, “The effect of extracellular osmolality on cell volume and resting skeletal muscle metabolism”, Faculty of Applied Health Sciences, Brock University

**3. Contributions to seminars and colloquia relevant to teaching and learning**

**4. Recognition of Teaching Excellence, including Awards (e.g., a Faculty Teaching Award or the OCUFA award)**

**5. Other Contributions Devoted to Pedagogical Interest, including innovative methods in teaching and other contributions to the teaching activities of the University (Publications or Activities previously listed in Section D may be cross listed here and identified with an asterisk)**

**6. Written comments of colleagues who have observed the candidate’s teaching first hand and at the invitation of the candidate**

**7. Written comments provided by colleagues regarding the candidate’s reputation in the area of teaching and learning among peers and the basis for that reputation**

**8. Written comments of students about the candidate’s teaching**

**9. Additional material relevant to teaching and learning collected by the candidate on their own initiative (e.g., a teaching portfolio)**

- 2005 “Introduction to WebCT” Workshop, CTLET, Brock University
- 2006 Academic Integrity Workshop, CTLET, Brock University

2006 “Privacy and Protection of Information: Implementing Best Practice” FIPPA Workshop, Human Resources, Brock University

2008 “Introduction to Sakai” Workshop, CTLET, Brock University

**10. Supervision of student practica and/or internships where specific professional credentials are required of the supervisor to allow students to obtain certification or licensure**

**F. UNIVERSITY/COMMUNITY SERVICE**

**1. Participation in University, Faculty, Departmental and Union committees**

2014-2017 Centre Representative, Faculty Executive, Faculty of Applied Health Sciences, Brock University

2014-2017 Chair, Centre Directors of Applied Health Sciences, Faculty of Applied Health Sciences, Brock University

2014-2017 Director, Centre for Bone and Muscle Health, Faculty of Applied Health Sciences, Brock University

2013-2014 Interim Director, Centre for Bone and Muscle Health, Faculty of Applied Health Sciences, Brock University

2011 Present faculty research interests in Virtual Tour of the CFHBRC (as part of Brock Days 2011), Brock University

2009-2012 Member of Vivarium Pre-Design and Design Development Advisory Committee, Niagara Health and Biosciences Research Complex, Brock University

2009-2012 Member of Applied Health Sciences/Biotechnology/Biology Pre-Design and Design Development Advisory Committee, Niagara Health and Biosciences Research Complex, Brock University

2009 Organize Faculty of Applied Health Sciences laboratory site visit for Dr. Carl Richards, Dean of Graduate Studies Candidate, Brock University

2009 Assist in development of advertisement for Tier II Canada Research Chair, Faculty of Applied Health Sciences, Brock University

2006-2012 Member of Faculty of Applied Health Sciences Graduate Studies Committee, Brock University



- 2006-2007 Assist in the formation and formal recognition of the Centre for Muscle Metabolism and Biophysics, Brock University
- 2005-present Member of Department of Health Sciences committee of the whole, Brock University
- 2005-present Member of Department of Health Science Health Sciences program committee, Brock University
- 2005-2013 Member of Radiation Safety Committee, Brock University

## **2. Counselling of students**

## **3. Service in and recognition by regional, national and international committees and other organizations, including professional organizations**

## **4. General administrative duties and administrative duties unique to a candidate's Faculty**

- 2015 Volunteer, Brock University Spring Open House
- 2013 Volunteer, Brock University Fall Open House
- 2012 Volunteer, Brock University Spring Open House
- 2010 Volunteer, Ontario University Fair
- 2007 Volunteer, Ontario University Fair

## **5. Community service where the candidate has made an essentially non-remunerative contribution by virtue of special academic competence**

- 2014 In person interview by Health Sciences Student Council for the Brock Health Magazine
- 2014 Design and present a seminar titled "Nutrition and Disease" for members of the Brock Niagara Centre for Health and Well-being.
- 2008-present Design and organize seminar series "What's For Supper?" discussing the importance of heart healthy eating to cardiac rehabilitation patients, Brock Heart Institute
- 2006 Media phone interview for Food Service and Hospitality Magazine about healthy eating
- 2006 Media phone interview for Brock Press about healthy eating for students

2006                      Invited speaker, “Cycling and Nutrition”, McMaster Varsity Cycling Club,  
McMaster University

**6. Administrative and non-teaching/research responsibilities within the University and the Union**