MICHAEL DE LISIO, Ph.D.

Faculty of Health Sciences | School of Human Kinetics | University of Ottawa
E260E Lees | 200 Lees Avenue | Ottawa, ON KIN 6N5
Email: mdelisio@uottawa.ca | Phone: (613) 562-5800 x.6987

EDUCATION

2012 Doctor of Philosophy
Department of Kinesiology
McMaster University, Hamilton, Canada

2006 Bachelor of Science, Honours
Queen's University, Kingston, Canada

PROFESSIONAL EXPERIENCE

2016- Assistant Professor
School of Human Kinetics, Faculty of Health Sciences
University of Ottawa, Ottawa, ON

2013-2016 Assistant Professor
Department of Kinesiology and Community Health
Graduate Faculty, Division of Nutritional Sciences
Member, Cancer Community at Illinois
Affiliate, Carle R. Woese Institute of Genomic Biology
Regenerative Biology and Tissue Engineering Theme (2016-present)
University of Illinois at Urbana-Champaign, Urbana, IL

2012-2013 Postdoctoral Research Associate
Beckman Institute for Advanced Science and Technology
University of Illinois at Urbana-Champaign, Urbana, IL

2011-2012 Visiting Scholar
Beckman Institute for Advanced Science and Technology
University of Illinois at Urbana-Champaign, Urbana, IL

2005 Undergraduate Research Assistant
Human Mobility Research Centre
Kingston General Hospital, Kingston, Canada

AWARDS AND HONORS

2013- Teachers Ranked as Excellent (KIN 451: SP'13, FA'13, FA'14*, FA'15 KIN 494: SP'14, KIN 352: FA'14*, FA'15, KIN450: SP'16)
*Rated as Outstanding

2012 Graduate Student Award Winner, Canadian Society for Exercise Physiology Conference

2009 Heimbecker Scholarship, McMaster University

2008 Iovate Graduate Student Award Finalist, Ontario Exercise Physiology Conference

2008 Graduate Student Association Millennium Award, McMaster University

2008 Kinesiology Graduate Body Bursary, McMaster University

RESEARCH

Peer Reviewed Journal Articles

1. Beals JW, Sukiennik RA, Nallabelli J, Emmons RS, van Vliet S, Young JR, Ulanov AV, Zhong L, Paluska SA, **De Lisio M**, and Burd N. Anabolic sensitivity of postprandial muscle protein synthesis to the ingestion of a protein-dense meal is reduced with greater adiposity in young adults. (In Press). *American Journal of Clinical Nutrition.*

2. Pincu Y, Huntsman HD, Zou K, **De Lisio M**, Mahmassani ZS, Munroe MR, Garg K, Jensen T, and Boppart MD. Diet-induced obesity regulates adipose-resident stromal cell quantity and extracellular matrix gene expression. (2016). *Stem Cell Research,* (1):181-90. PMID: 27399175.

3. Niemiro GM, Raine LB, Khan NA, Emmons R, Little J, Kramer AF, Hillman CH, and **De Lisio M**. Circulating progenitor cells are positively associated with cognitive function among overweight/obese children. (2016). *Brain Behavior Immunity*, 57:47-52. PMID: 27132057.

4. Emmons R, Niemiro GM, and **De Lisio M**. Exercise as an adjuvant therapy for hematopoietic stem cell mobilization. (2016). *Stem Cells International*, 2016:7131359. PMID: 27123008.

5. Safdar A, Khrapko K, Flynn JM, Saleem A, **De Lisio M**, Johnston AP, Kratysberg Y, Samjoo IA, Kitaoka Y, Ogborn DI, Little JP, Raha S, Parise G, Akhtar M, Hettinga BP, Rowe GC, Arany Z, Prolla TA, and Tarnopolsky MA. Exercise-induced mitochondrial p53 repairs mtDNA mutations in mutator mice. (2016). *Skeletal Muscle*, 6:7. PMID: 26834962.

6. Emmons R, Niemiro G, Owolabi O, and **De Lisio M**. Acute exercise mobilizes hematopoietic stem and progenitor cells and alters the mesenchymal stromal cell secretome. (2016). *J. Appl. Physiol*, 120(6):624-32. PMID: 26744505.

7. Farup J, **De Lisio M**, Rahbek SK, Vendelbo MH, Boppart MD, and Vissing K. Stem cell content in human skeletal muscle is influenced by resistance exercise contraction mode, but not protein supplementation. (2015). *J. Appl. Physiol.* 119(10):1053-63. PMID: 26404620.

8. **De Lisio M**, Farup J, Sukiennik RA, Clevenger N, Nallabelli J, Nelson B, Ryan K, Rahbek SK, de Paoli F, Vissing K, and Boppart MD. The acute response of pericytes to muscle-damaging eccentric contraction and protein supplementation in human skeletal muscle. (2015). *J. Appl. Physiol.* 11(8)900-7. PMID: 26205545.

9. Zou K, Huntsman HD, Valero MC, Adams J, Skelton J, **De Lisio M**, Jensen T and Boppart MD. Mesenchymal stem cells augment the adaptive response to eccentric exercise. (2015). *Med Sci Sports Exerc,* 47(2):315-25. PMID: 24905768

10. Zou K*, **De Lisio M***, Huntsman HD, Pincu Y, Mahmassani Z, Miller M, Olatunbosun D, Jensen T, Boppart MD. (2014). Laminin-111 improves skeletal muscle stem cell quantity and function following eccentric exercise. *Stem Cells Transl Med.* (9):1013-22. PMID: 25015639. *These authors contributed equally to this work.

11. **De Lisio M**, Jensen T, Sukiennik RA, Huntsman HD and Boppart MD. Substrate and strain alter the muscle-derived mesenchymal stem cell secretome to promote myogenesis. (2014). *Stem Cell Research & Therapy*, 5(3):74. PMID: 24906706

12. Graf BW, Bower AJ, Chaney EJ, Marjanovic M, Adie SG, **De Lisio M**, Valero MC, Boppart MD, Boppart SA. (2014). In vivo multimodal microscopy for detecting bone marrow-derived cell contribution to skin regeneration. *J Biophotonics*, 7(1-2):96-102. PMID: 23401460

13. Boppart MD, **De Lisio M**, Zou K and Huntsman HD. (2013). Defining a role for mesenchymal stem cells in muscle repair following exercise. *Frontiers in Physiology*, 4:310. PMID: 24204344.

14. Graf BW, Chaney EJ, Marjanovic M, Adie SG, **De Lisio M**, Valero MC, Boppart MD and Boppart SA. (2013). Long-term time-lapse multimodal intravital imaging of regeneration and bone marrow-derived cell dynamics in skin. *Technology*. DOI: 10.1142/S2339547813500027.

15. Graf BW, Chaney EJ, Marjanovic M, **De Lisio M**, Valero MC, Boppart MD and Boppart SA. (2013). In vivo imaging of immune cell dynamics in skin in response to zinc-oxide nanoparticle exposure. *Biomedical Optics Express,* 4(10):1817-28. PMID: 24156046.

16. **De Lisio M** and Parise G. (2013). Exercise and hematopoietic stem and progenitor cells: protection, quantity and function. *Exerc Sport Sci Rev*, 41(2):116-22. PMID: 23364348.

17. Huntsman HD, Zachwieja N, Zou K, Ripchick P, Valero MC, **De Lisio M** and Boppart MD. (2013). Mesenchymal stem cells contribute to vascular growth in skeletal muscle in response to eccentric exercise. *Am J Physiol Heart Circ Physiol*, 304(1):H72-81. PMID: 23280781.

18. **De Lisio M**, Baker JM and Parise G. (2012). Exercise promotes bone marrow cell survival and recipient reconstitution post-bone marrow transplantation which is associated with increased survival. *Exp Hematol.* 41(2): 143-54. PMID: 23063724.

19. **De Lisio M** and Parise G. (2012). Characterization of the effects of exercise training on hematopoietic stem cell quantity and function. *J Appl Physiol.* 113(10):1576-84. PMID: 23019311.

20. Phan N, **De Lisio M**, Parise G and Boreham DR. (2012). Biological effects and adaptive response from single and repeated computed tomography scans in C57Bl/6 mice. *Radiation Res,* 177(2):164-75. PMID: 22059980.

21. Baker JM, **De Lisio M** and Parise G. (2011). Endurance exercise training promotes medullary hematopoiesis. *FASEB J,* 25(12):4348-57. PMID: 21868472. Featured in Scientific American Podcast.

22. Johnston APW, Bellamy LM, **De Lisio M** and Parise G. (2011). Captopril treatment induces hyperplasia but inhibits myonuclear accretion following severe myotrauma. *Am J Physiol Regul Integr Comp Physiol*, 301(2):R363-9. PMID: 21632844.

23. Toth KG, McKay BR, **De Lisio M**, Little JP, Tarnopolsky MA and Parise G. (2011). IL-6 induced STAT3 signalling is associated with the proliferation of human muscle satellite cells following acute muscle damage. *PLOS ONE*, 6(3):e17392. PMID: 21408055.

24. **De Lisio M**, Phan N, Boreham DR and Parise G. (2011). Exercise-induced protection of bone marrow cells following exposure to radiation. *Appl Physiol Nutr Metab,* 36(1):80-7. PMID: 21326381. Featured in CSEP Knowledge Translation Newsletter.

25. **De Lisio M**, Kaczor JJ, Phan N, Tarnopolsky MA, Boreham DR and Parise G. (2011). Exercise training enhances the skeletal muscle response to radiation-induced oxidative stress*. Muscle Nerve,* 43(1):58-64. PMID: 21171096.

26. Johnston AP, Baker J, Bellamy LM, McKay BR, **De Lisio M** and Parise G. (2010). Regulation of muscle satellite cell activation and chemotaxis by angiotensin II. *PLOS ONE*, 21; 5(12):e15212. PMID: 21203566.

27. Johnston AP, Baker J, **De Lisio M** and Parise G. (2010). Skeletal muscle myoblasts possess a stretch-responsive local angiotensin signalling system. *J Renin Angiotensin Aldosterone Syst,* 12(2):75-84. PMID: 20921089.

28. Bellamy LM, Johnston AP, **De Lisio M** and Parise G. (2010). Skeletal muscle-endothelial cell cross talk through angiotensin II. *Am J Physiol Cell Physiol,* 299(6):C1402-8. PMID: 20861465.

29. Parise G and **De Lisio M**. (2010). Mitochondrial theory of aging in human age-related sarcopenia. *Interdiscip Top Gerontol,* 37:142-56. PMID: 20703060.

30. West DW, Kujibida GW, Moore DR, Atherton P, Burd NA, Padzik JP, **De Lisio M**, Tang JE, Parise G, Rennie MJ, Baker SK and Phillips SM. (2009). Resistance exercise-induced increases in putative anabolic hormones do not enhance muscle protein synthesis or intracellular signalling in young men. *J Physiol,* 587(Pt21):5239-47. PMID: 19736298.

31. McKay BR, **De Lisio M**, Johnston AP, O'Reilly CE, Phillips SM, Tarnopolsky MA and Parise G. (2009). Association of interleukin-6 signalling with the muscle stem cell response following muscle-lengthening contractions in humans. *PLOS ONE,* 4(6):e6027. PMID: 19554087.

32. Johnston AP, **De Lisio M** and Parise G. (2008). Resistance training, sarcopenia, and the mitochondrial theory of aging. *Appl Physiol Nutr Metab,* 33(1):191-9. PMID: 18347672.

Book Chapters

1. Boppart MD, **De Lisio M**, Witkowski S. (2015). *Exercise and Stem Cells*. In: Bouchard C, Ed. Molecular and Cellular Regulation of Adaptation to Exercise. (2015).

Abstracts

1. Emmons R, Kriska A, Chen H, and **De Lisio M**. (2016). Exercise training reverses the accumulation of marrow adipose tissue and pro-inflammatory cytokines following diet-induced obesity. *APS Integrative Physiology of Exercise Conference, Phoenix, AZ.*

2. Emmons R, Kriska A, Nallabelli J, Chen H, and **De Lisio M**. (2016). Exercise training rescues hematopoietic stem and progenitor cell content and reduces senescence following high-fat diet. *American College of Sports Medicine Conference, Boston MA.*

3. Niemiro G, Parel J, Beals J, van Vliet S, Moore DR, Burd NA, and **De Lisio M**. (2016). Time course of progenitor cell mobilization during exercise in endurance trained men. *American College of Sports Medicine Conference, Boston MA.*

4. van Vliet S, Emmons RS, Parel JT, Beals JW, van Loon LJC, Paluska SA, **De Lisio M**, and Burd NA. (2016). mTOR activation occurs independent of changes in skeletal muscle LAT1 protein content after protein ingestion in young men. *American College of Sports Medicine Conference, Boston MA.*

5. Sun Y, Pence BD, Garg K, Dvoretskly SV, Niemiro GM, Allen JM, **De Lisio M**, Boppart MD, and Woods JA. (2016). Acute eccentric exercise does not improve primary antibody responses to ovalbumin vaccination in mice. *American College of Sports Medicine Conference, Boston MA.*

6. Kriska A, Emmons R, Jung P, Xu G, **De Lisio M**, Pan YX, Chen H. (2016). Treadmill exercise decreases lymph associated aberrant crypt foci in the large intestine of obese mice. *The Federation of American Societies for Experimental Biology Meeting, San Diego, CA.*

7. **De Lisio M**, Emmons R, Niemiro G, and Owolabi O. (2016). Acute exercise mobilizes hematopoietic stem and progenitor cells and alters the mesenchymal stromal cell secretome. *NIH Aging Hematopoiesis Workshop, Bethesda, MD.*

8. **De Lisio M**, Nallabelli J, Niemiro G, Emmons R, and Korp N. (2016). Differential expression of amino acid transporters during in vitro myogenesis. *Advances in skeletal muscle biology in health and disease, University of Florida, Gainesville, FL*.

9. Emmons R, Niemiro G, and **De Lisio M**. (2015). Acute exercise stimulates bone marrow stem/progenitor mobilization and proliferation. *Canadian Society for Exercise Physiology Conference, Hamilton, ON*.

10. Niemiro G, Raine L, Khan N, Emmons R, Little J, Kramer AF, Hillman C, and **De Lisio M**. (2015). The relationship between circulating progenitor cells and cognitive function in overweight/obese children. *Canadian Society for Exercise Physiology Conference, Hamilton, ON*.

11. Parel J, van Vliet S, Emmons R, Beals JW, van Loon LJC, Paluska SA, **De Lisio M**, and Burd NA. (2015). Protein ingestion does not modulate skeletal muscle LAT1 protein content throughout the postprandial period in healthy young men. *Canadian Society for Exercise Physiology Conference, Hamilton, ON*.

12. Emmons R, Chorghade S, Parise G, Kalsotra A and **De Lisio M.** (2015). Exercise training enhances PABPC1 content in cardiac tissue but overexpression does not affect acute performance. *American College of Sports Medicine Meeting, San Diego, CA.*

13. Niemiro G, Raine L, Emmons R, Little J, Hillman C and **De Lisio M.** (2015). Hematopoietic progenitor cells and inflammatory monocytes increase in circulation in overweight children. *American College of Sports Medicine Meeting, San Diego, CA.*

14. Owolabi T, Emmons R, Niemiro G and **De Lisio M**. (2015). Hematopoietic stem/progenitor cell mobilization and skeletal muscle chemo-attraction following acute exercise. *NIH STEP-UP Research Symposium, Bethesda, MD.*

15. Nallabelli J, Niemiro G, Korp N and **De Lisio M**. (2015). The importance of L-Type Amino Acid Transporter 1 on Myoblasts. *Poster presented at Kinesiology and Community Health Honors and Awards Ceremony, UIUC*.

16. **De Lisio M**, Farup J, Sukiennik RA, Clevenger N, Nallabelli J, Nelson B, Ryan K, Rahbek SK, Vissing K. and Boppart MD. (2014). The acute response of pericytes to eccentric contraction and protein supplementation in human skeletal muscle. *American College of Sports Medicine Integrated Physiology of Exercise Meeting, Miami, FL.*

17. Pincu, Y, Huntsman HD, Zou K, **De Lisio M**, Mahmassani ZS, Jensen T, and Boppart MD. (2014). Evaluation of adipose- and muscle-resident mesenchymal stem cell adipogenic potential following high fat diet and exercise. *American College of Sports Medicine Integrative Physiology of Exercise*, Miami, FL.

18. Zou K, **De Lisio M**, Miller MA, Olatunbosun D, Samuel E, and Boppart MD. (2014). Laminin-111 improves skeletal muscle repair following eccentric exercise-induced damage. *American College of Sports Medicine Meeting, Orlando, FL*.

19. **De Lisio M**, Jensen T, Sukiennik RA, Huntsman HD, and Boppart MD. (2014). Substrate and stretch regulate muscle-resident mesenchymal stem cells to promote myoblast proliferation. *The Federation of American Societies for Experimental Biology Meeting, San Diego, CA.*

20. Huntsman HD, **De Lisio M**, Kolyvas E, Merritt J, Bhattacharya T, Jensen T, Rhodes JS, and Boppart MD. (2014). Simultaneous reversal of age-related declines in muscle health and cognition with transplantation of preconditioned mesenchymal stem cells. *The Journal of the Federation of American Societies for Experimental Biology, San Diego, CA.*

21. Pincu Y, Huntsman HD, Zou K, **De Lisio M**, Mahmassani ZS, and Boppart MD. (2014). Evaluation of mesenchymal stem cell contribution to adipose health in the context of high fat diet and exercise. *The Journal of the Federation of American Societies for Experimental Biology, San Diego, CA.*

22. Bower AJ, Zhao Y, Mahmassani Z, Chaney EJ, Marjanovic M, Lee M, Graf BW, **De Lisio M**, Kong H, Boppart MD, and Boppart SA. (2014). Integrated optical

coherence and multiphoton microscopy for in vivo assessment of engineered skin substitutes. *Paper 8948-96, SPIE Photonics West, San Francisco, CA.*

23. **De Lisio M**, and Parise G. (2014). Exercise training enhances recipient survival with no benefit to long-term engraftment following bone marrow transplantation. *Poster presented at Cancer Community of Illinois Research Day, UIUC.*

24. Zou K, **De Lisio M**, and Boppart MD. (2014). Laminin-111 improves skeletal muscle repair following eccentric exercise-induced damage. *Research & Creative Achievement Week, East Carolina University*.

25. Pincu Y, Huntsman HD, Zou K, **De Lisio M**, Mahmassani Z, and Boppart MD. (2013). High fat diet and exercise alter gene transcription of mesenchymal stem cells derived from muscle and adipose. *The 6th D-Cure Annual Symposium – New Frontiers in Diabetes Research, Israel*.

26. Huntsman HD, **De Lisio M**, Kolyvas EA, Merritt J, Bhattacharya T, Rhodes J, and Boppart MD. (2013). Simultaneous reversal of age-related declines in muscle health and function with transplantation of preconditioned mesenchymal stem cells. *Pathobiology of Aging and Age-Related Diseases, San Antonio, TX*.

27. Zou K, Huntsman HD, Mahmassani Z, **De Lisio M**, and Boppart MD. (2013). Muscle-derived mesenchymal stem cells secrete paracrine factors that are important for regeneration and growth. *Med. Sci. Sports Exer. 45(5S) (Suppl 1):275-278*.

28. **De Lisio M** and Parise G. Characterization of the effects of exercise training on hematopoietic stem cell quantity and function. (2012). *Canadian Society of Exercise Physiologists Conference, Regina, Canada.* Graduate Student Award Competition Winner.

29. **De Lisio M** and Parise G. (2012). Exercise training enhances recipient survival with no benefit to long-term engraftment following bone marrow transplantation. *American College of Sports Medicine Meeting, San Francisco, USA.*

30. **De Lisio M** and Parise G. (2011). Exercise training enhances recipient survival with no benefit to long-term engraftment following bone marrow transplantation. *The Joint UIC-UIUC Workshop on Regenerative Biology and Tissue Engineering, University of Illinois at Urbana-Champaign, Urbana, IL.*

31. Johnston A, Baker J, Bellamy L, **De Lisio M** and Parise G. (2010). Angiotensin II signaling regulates skeletal muscle growth and myoblast chemotaxis. *FASEB J*, 2010 24:824.4. *The Federation of American Societies for Experimental Biology Meeting, Anaheim, USA.*

32. Toth KG, McKay BR, **De Lisio M**, Tarnopolsky MA and Parise G. (2010). Satellite cell specific p-STAT3 signaling in human muscle following acute muscle damage. *FASEB J*, 24:1b31. *The Federation of American Societies for Experimental Biology Meeting, Anaheim, USA.*

33. Baker J, **De Lisio M** and Parise G. (2010). Endurance exercise training increases medullary and extramedullary hematopoiesis. *FASEB J*, 24:618.18. *The Federation of American Societies for Experimental Biology Meeting, Anaheim, USA.*

34. **De Lisio M**, Baker J and Parise G. (2010). The potential of exercise training as a therapeutic strategy for bone marrow transplant. *Ontario Exercise Physiology Conference, Barrie, Canada.*

35. **De Lisio M**, Kujibida G, West D, Padzick J, Buick J, Parise G, Baker SK and Phillips S. (2009). No impact of acute resistance exercise-induced elevation of growth hormone on JAK/STAT signaling or mixed muscle protein synthesis in young men. *Appl. Physiol. Nutr. Metab.* 34:1125. *The 14th International Conference Biochemistry of Exercise, Guelph, Canada.*

36. **De Lisio M**, Phan N, Kaczor JJ, Tarnopolsky MA, Boreham DR and Parise G. (2009). Exercise training and low dose radiation protect skeletal muscle from high dose radiation. *FASEB J*, 23:600.6. *The Federation of American Societies for Experimental Biology Meeting, New Orleans, USA.*

37. Johnston APW, **De Lisio M**, Bellamy L and Parise G. (2009). Angiotensin II is necessary for skeletal muscle regeneration following cardiotoxin-induced injury. *FASEB J*, 23:601.6. *The Federation of American Societies for Experimental Biology Meeting, New Orleans, USA.*

38. McKay BR, **De Lisio M**, Johnston APW, Phillips SM, Tarnopolsky MA and Parise G. (2009). Interleukin-6 signaling mediates human muscle satellite cell proliferation following acute muscle damage. *FASEB J*, 23:601.7. *The Federation of American Societies for Experimental Biology Meeting, New Orleans, USA.*

39. **De Lisio M**, Phan N, Kaczor JJ, Tarnopolsky MA, Boreham DR and Parise G. (2009). Exercise training enhances the ability of skeletal muscle to respond to radiation-induced oxidative stress. *Ontario Exercise Physiology Conference, Barrie, Canada*.

40. **De Lisio M**, Phan N, Boreham DR and Parise G. (2008). Progressive exercise training protects bone marrow stem cells from radiation-induced damage. *FASEB J*, 22:758.7. *The Federation of American Societies for Experimental Biology Meeting, San Diego, USA.*

41. Phan N, **De Lisio M**, Parise G and Boreham DR. (2008). Adaptive Response with oxidative stress from CT scans and exercise in mice. *FASEB J*, 22:758.8. *The*

Federation of American Societies for Experimental Biology Meeting, San Diego, USA.

42. Phan N, **De Lisio M**, Parise G and Boreham DR. (2008). CT scans and exercise induce an adaptive response in mice. *The 54th Annual Meeting of the Radiation Research Society, Boston, USA.*

43. **De Lisio M**, Phan N, Boreham DR and Parise G. (2008). Exercise training induced protection against radiation in stem and progenitor cells. *Ontario Exercise Physiology Conference, Barrie, Canada.* Iovate Graduate Student Award Competition Finalist.

44. Phan N, **De Lisio M**, Parise G, and Boreham DR. (2008). Adaptive response with oxidative stress from CT scans and exercise in mice. *Low Dose Radiation Research Investigators Workshop. Washington, USA.*

Presentations (Seminars, Conferences, Workshops)

1. **De Lisio M.** "Exercising the stem cell niche". Seminar Series, School of Human Kinetics, University of Ottawa, 2016.

2. **De Lisio M.** "Exercising the stem cell niche in the context of obesity and cancer". Seminar Series, Department of Exercise and Nutrition Sciences, SUNY University at Buffalo, 2016.

3. **De Lisio, M.** "Investigating the Role of Muscle Stem Cells in Cancer Cachexia". Carle Cancer Center, Urbana, IL, 2016.

4. **De Lisio M.** "Hematopoietic stem cell regulation in exercise and obesity". American College of Sports Medicine Meeting, Boston, MA, 2016.

5. **De Lisio M.** "Exercise and mesenchymal stromal cells: optimizing the stem cell niche". Canadian Society of Exercise Physiologists, Hamilton, ON, 2015.

6. **De Lisio M.** "Exercise and the stem cell microenvironment: implications in muscle and bone marrow". Nutritional Sciences Seminar, University of Illinois at Urbana-Champaign, Urbana, IL, 2013.

7. **De Lisio, M.** "Exercise and hematopoietic stem cells". Carle Cancer Center, Urbana, IL, 2013.

8. **De Lisio M.** "The effects of exercise training on hematopoietic stem cells and their niche: implications for bone marrow transplantation". Graduate Seminar, University of Illinois at Urbana-Champaign, Urbana, IL, 2011.

9. **De Lisio M.** "The effects of exercise training on hematopoietic stem cells and their niche: implications for bone marrow transplantation". Ottawa Hospital Research Institute, Ottawa, Canada, 2011.

10. **De Lisio M**. "The potential of exercise training as a therapeutic strategy for bone marrow transplant". Roswell Park Cancer Institute, Buffalo, NY, 2010.

11. **De Lisio M.** "Exercise training: the latest radioprotectant". Dr. DR Boreham Lab Meeting, McMaster University, Hamilton, Canada, 2008.

12. **De Lisio M.** "Exercise, radiation and the adaptive response". Department of Kinesiology Graduate Seminar, McMaster University, Hamilton, Canada, 2007.

FUNDING

Current:

1. National Cattlemen's Beef Association.
"*The influence of regular beef consumption and protein density of the diet on training induced gains in muscle strength and performance in healthy adults*".
Role: Co-I (Burd, PI). Amount: $232,627 (total), 2016-2018.

2. American College of Sports Medicine Foundation Grant.
"*Remodeling the hematopoietic stem cell niche with exercise*".
Role: PI. Amount: $10,000 (total), 2016-2017.

3. Campus Research Board Program, UIUC.
"*Characterization of the epigenome and secretome in high-fat diet induced obese mice undergoing optimized exercise*".
Role: Co-PI (Chen, Co-PI). Amount: $29,932 (total), 2016-2017.

4. National Pork Board.
"Effect of pork ingestion on postprandial mitochondrial protein synthesis and inflammation in skeletal muscle of healthy weight, overweight, and obese adults".
Role: Co-I. Amount: $43,000 (total), 2016-2017.

4. Division of Nutritional Science Vision 20/20 Program, UIUC.
"*The effects of probiotics and prebiotics on behavioral and biological markers of cognition and stress".*
Role: Co-I. Amount: $20,000 (total), 11/2015-10/2017.

5. Division of Nutritional Science Vision 20/20 Program, UIUC: "*The effects of overweight/obesity and acute dietary protein ingestion on muscle stem cell function*".
Role: PI. Amount: $22,500 (total), 11/2014-10/2016.

6. R01HL126845, National Heart, Lung and Blood Institute, NIH.
   "*Post-transcriptional mechanisms of gene regulation in cardiac cell growth and development*".
   Role: Collaborator (Kalsotra, PI). Amount: $1,936,340 (total), 04/2015-02/2020.

7. National Pork Board.
   "*Postprandial muscle protein synthetic responses after high quality pork consumption in lean and obese adults*".
   Role: Co-I (Burd, PI). Amount: $136,000 (total), 10/2014-09/2016.

8. Sun Health Technologies.
   "*Phototherapy and Vitamin D*".
   Role: Co-I (Motl, PI). Amount: $63,023 (total), 01/2015-05/2016.

Funding Awarded to Students Under My Supervision

1. American College of Sports Medicine Foundation
   "The effect of exercise and obesity on hematopoietic recovery following radiation treatment".
   Role: Advisor to student PI. Amount: $4,999 (total), 2016-2017.

2. Egg Nutrition Center Young Investigator Award
   "Examining the pro-inflammatory effects of a high carbohydrate meal versus eggs in lean, overweight, and obese children".
   Role: Advisor to student PI. Amount: $19,800 (total), 2016-2017.

Pending/Submitted

1. American Institute for Cancer Research.
   "*The effects of obesity and exercise on radiation-induced leukemia".*
   Role: PI. Amount: $164,644. Ranked in top 10, fund top 10-12 applications.

2. R01, National Institute of Child Health and Human Development.
   "Sympathetic nervous system mediates the acute effects of exercise on brain and cognition in children".
   Role: Co-I (Hillman, PI). Amount: $2,727,494. Impact Score: 32 (Resubmission: June 2016)

3. Department of Defense, Breast Cancer Research Fund.
   "*The role of marrow adipose tissue in breast cancer metastasis to the bone: exercise as a novel intervention strategy to reduce marrow adipose and metastasis*".
   Role: Co-PI (Nelson, Co-PI). Amount: $437,465.

Completed

1. Campus Research Board Program, UIUC.
   "*Exercise mediated regulation of the hematopoietic stem cell niche*".

Role: PI. Amount: $30,000 (total), 02/2014-07/2015.

2. Center on Health, Aging and Disability, UIUC.
   "*Cognitive impairments in obese children through hematopoietic stem cell dysfunction*".
   Role: PI. Amount: $20,000 (total), 08/2013-02/2015.

3. The Mayo Clinic/University of Illinois Strategic Alliance for Technology-Based Healthcare, Mayo Clinic 2013 Individualizing Medicine Conference.
   Role: Co-I. Amount: $2,000 (total), 10/2013.

4. Beckman Institute Postdoctoral Fellowship, UIUC.
   "*Cognitive impairments through obesity-induced hematopoietic stem cell dysfunction*".
   Role: Postdoc-PI. Amount: $52,000 (*Declined*).

5. Frederick Banting and Charles Best Canada Graduate Scholarship, Canadian Institutes of Health Research.
   "*Exercise and Hematopoietic Stem Cells: Implications for Bone Marrow Transplantation*".
   Role: Student-PI. Amount: $105,000 (total), 04/2009-04/2012.

6. Raymond Moore Scholarship, Ontario Graduate Scholarship for Science and Technology.
   "*Exercise Training, the Latest Radioprotectant*".
   Role: Student-PI. Amount: $15,000 (total), 09/2008-08/2009.

STUDENT SUPERVISION

Graduate Student Supervision

Russell Emmons, Kinesiology and Community Health (UIUC), 08/2013 – present.
PhD: Expected 2017

Grace Niemiro, Kinesiology and Community Health (UIUC), 01/2015 – present.
PhD: Expected 2018

Doctoral Dissertation Committees

1. Brandon Kistler, Kinesiology and Community Health (UIUC), 05/2014 – 10/2015.
2. Lauren Raine, Kinesiology and Community Health (UIUC), 02/2016 – 2016.
3. Adam Kriska, Food Science and Human Nutrition (UIUC), 03/2015 – present.

Comprehensive Examination Committees

1. Joshua Nederveen, Kinesiology (McMaster University), 2015

Master's Dissertation Committees

1. Svyatoslav Dvoretskiy, Kinesiology and Community Health (UIUC), 2016
2. Andra Whitney, Kinesiology and Community Health (UIUC), 2016

Undergraduate Student Supervision

Current
1. Michael Frintner, Molecular and Cellular Biology (UIUC), 2015 – present.
2. Shaunak Pal, Kinesiology and Community Health (UIUC), 2015 – present.
3. Lauren Feld, Molecular and Cellular Biology (UIUC), 2016 – present.
4. Jeeth Joseph, Molecular and Cellular Biology (UIUC), 2016 – present.
5. Thomas Topallia, Molecular and Cellular Biology (UIUC), 2016 – present.
6. Amanda Rhee, Molecular and Cellular Biology (UIUC), 2016 – present.
7. Zachary Parks, Kinesiology and Community Health (UIUC), 2016 – present.
8. Maxime Barrette, Human Kinetics (uOttawa), 2016-2017.

Past:
1. Michael Gleason, Molecular and Cellular Biology (UIUC), 2016 – present.
2. Brett Nelson, Molecular and Cellular Biology (UIUC), 2013 - 2016.
3. Adwait Nitin Sadwilkar, Molecular and Cellular Biology (UIUC), 2013 - 2016.
    - Award: MCB Summer Undergraduate Research Fellowship, $2500, 05/2014-08/2014.
    - Position after leaving lab: Research Technician, Indiana University
4. Eric De Guevara, Molecular and Cellular Biology (UIUC), 2013 - 2015.
5. Braden Muhlstadt, Kinesiology and Community Health (UIUC), 2013 – 2015.
6. Abigail Freeman, Kinesiology and Community Health (UIUC), 2014 – 2016.
7. Analine Delgado, Kinesiology and Community Health (UIUC), 2014 – present.
8. Zak Woods, Kinesiology and Community Health (UIUC), 2015 – present.
    - Position after leaving lab: Research Technician, Northwestern University
9. Brent Olson, Kinesiology and Community Health (UIUC), 2014 – present.
10. Jessica Wrobel, Molecular and Cellular Biology (UIUC), 2015 – 2016.
11. Tomide Owolabi, Kinesiology and Community Health (UIUC), 2015 – present.
    - Award: American Physiological Society Short-Term Research Experience for Underrepresented Persons (STEP-UP) Fellowship
12. Madeline Lallanilla, Kinesiology and Community Health (UIUC), 2016 – present.
13. Ellen Rohan, Kinesiology and Community Health (UIUC), 2016 – present
14. Julian Nallabelli, Molecular and Cellular Biology and Food Science and Human Nutrition (UIUC), 2013 – 2015.
    - Award: MCB Summer Undergraduate Research Fellowship, $2500, 05/2014-08/2014.
    - Senior Thesis: *The importance of the L-Type Amino Acid Transporter 1 on Myoblasts*. Awarded with High Distinction
    - Position after leaving lab: Lab Technician, De Lisio Lab (UIUC)
15. Nicole Korp, Bioengineering (UIUC), 2015 – 2016.
    - Position after leaving lab: Undergraduate, Bioengineering (UIUC)

16. Grace Niemiro, Molecular and Cellular Biology (UIUC), 2013 - present.
    - Position after leaving lab: Doctoral Student, Exercise and Stem Cell Physiology Lab (UIUC)
17. Richard Sukiennik, Kinesiology and Community Health (UIUC), 2013 - 2014.
    - Position after leaving lab: Research Assistant, Nutrition and Exercise Performance Lab (UIUC)
18. Nicole Clevenger, Molecular and Cellular Biology (UIUC), 2013 - 2014.
    - Position after leaving lab: Medical Student (UIUC)

TEACHING

University of Ottawa

Instructor, *APA 4313: Exercise and Disease Prevention*, School of Human Kinetics. Fall 2016

University of Illinois at Urbana-Champaign

Instructor, *KIN 451: Skeletal Muscle Physiology*, Department of Kinesiology and Community Health. Spring 2012*, Fall 2013*, Fall 2014*†, Fall 2015*.

Instructor, *KIN 494: Exercise and Chronic Disease*, Department of Kinesiology and Community Health. Spring 2014*.

Instructor, *KIN 352: Bioenergetics of Human Movement*, Department of Kinesiology and Community Health. Fall 2014*, Fall 2015*.

Instructor, *KIN 450: Biochemistry of Exercise*, Department of Kinesiology and Community Health. Spring 2016*.

Student Mentor, *KIN 565: Teaching in the Professoriate*, Department of Kinesiology and Community Health. Mentees: Russell Emmons (Fall 2013), Ziad Mahmassani (Fall 2014), Jacob Allen (Fall 2014).

Guest Lecturer, *KIN 150: Bioscience of Human Movement*, Department of Kinesiology and Community Health. Fall 2012.

*****List of Teachers Ranked as Excellent, †Rated as Outstanding

McMaster University (2006-2012)

Guest Lecturer, *BHSc 2F03: Anatomy and Physiology*, Faculty of Science. Fall 2010.

Teaching Assistant:

- KIN 1A03 Human Anatomy and Physiology

- KIN 2C06 Physiology of Exercise
- KIN 2H03 History and Philosophy of Kinesiology
- KIN 2C03 Neuromuscular Exercise Physiology
- KIN 2CC3 Cardiorespiratory & Metabolic Exercise Physiology
- KIN 3K03 An Introduction to Sports Injuries

SERVICE

Public and Professional Service

Membership in Professional Society
Canadian Society for Exercise Physiology (Since 2009); American College of Sports Medicine (Since 2012); American Physiological Society (Since 2012)

Journal Reviewer
Translational Research; Brain, Behavior, and Immunity; Medicine & Science in Sports & Exercise; Applied Physiology Nutrition and Metabolism; Journal of Applied Physiology; Journal of Cachexia, Sarcopenia and Muscle, Exercise and Sport Science Reviews, International Journal of Sports Medicine, Journal of Diabetes, JoVE, Oncotarget.

Grant Reviewer
1. Nebraska Research Institute (*ad hoc*)
2. National Science and Engineering Research Council Canada (*ad hoc*)

Public Engagement
- Cancer Research Advocacy Group, University of Illinois at Urbana-Champaign (2016)
- Synapse Mentorship Program, Canadian Institute for Health Research (2009-2012)
- Venture Camp, McMaster University (2011)

Administrative Service to the University

Department of Kinesiology and Community Health, UIUC
- Faculty Search Committee Member, Cancer Survivorship (2014)
- Ad Hoc Committee to Establish Guidelines for Specialized Faculty Promotion and Tenure (2015)

College of Applied Health Science, UIUC
- Educational Policy Committee (2015-2017)

UIUC Campus
- Division of Nutritional Sciences, Fellowship Committee Member (2014-2017)
- Division of Nutritional Sciences, Nutrition Symposium Poster Judge (2015)

- Division of Nutritional Sciences, Nutrition Symposium Oral Presentation Judge (2016)

Department of Kinesiology, McMaster University

- Kinesiology Graduate Body (all elected): Treasurer, 2010-2011; Secretary (2009-2010); President (2008-2009); Heimbecker Cup Representative (2007-2008).
- Graduate Student Representative (all appointed): Department Council (2008-2009); Graduate Curriculum & Policy Committee (2008-2009); Learning Management Systems Transition Committee (2008-2009)