

Complete contributions
Appendix 2: FUNDING RECEIVED or CONTINUING
between May, 1 2014 – April 30, 2015

Adegoke, Olasunkanmi A. J.

Funding Received:

NSERC Discovery Grant renewed

Title: “Mechanisms of regulation of skeletal muscle mass and growth”

5 years

Belcastro, Angelo N.

Funding Received:

Funding Applied For:

Biot, Olivier

Funding Received:

2015

Heart and Stroke, Grant-in-Aid, Co-applicant with Drs. Haas and Ellis, \$266, 211 / 3 years

Ceddia, Rolando B.

Funding Received:

NSERC Discovery Grant: \$40,000

Edgell, Heather

Funding Received:

2 Junior Faculty Awards – York University, Faculty of Health \$2,000 each (one-time)

1 Minor Research Grant – York University, Faculty of Health \$3,000 (one-time)

Funding Applied For:

Banting Research Foundation Discovery Award - \$25,000 (one-time)

Canadian Foundation for Innovation - \$100,000 (one-time)

Ontario Research Fund - \$100,000 (one-time)

Haas, Tara L.

Funding Received:

2015-2018

Heart and Stroke Research Foundation of Canada \$266,211 total funding (3 years); “*Regulators of angiogenesis in peripheral limb ischemia*” PI – Tara Haas; Co-applicants: C. Ellis (UWO) and O. Biot

2015

NSERC Research Tools and Instrumentation; \$150,000 (PI: C. Perry; co-applicants: Haas, Hood, Ceddia, Riddell, Scime) “*A core in vivo microCT imaging system for analyzing body composition, circulation and cardiorespiratory function in rodents*”

2013-2017

CIHR Operating Grant; \$390,800 total funding (4 years) (PI; 1 Co-applicant: E. Roudier)

“*Microvascular remodeling of the adipose and muscle tissues in diet-induced obesity: regulation by FoxO proteins*”

2013-2018

NSERC Discovery Grant (renewal); \$165,000 total funding (5 years) *“Regulation of capillary sprouting and stabilization in skeletal muscle”*

Funding Applied For:

2015

CIHR Transitional Operating grant; *“Regulators of angiogenesis in peripheral limb ischemia”* PI – Tara Haas; Co-applicants: Birot, Ellis and Gustafsson

Hamadeh, Mazen J.

Funding Received:

May 2014

Minor Research Grant, Faculty of Health, York University, Spinal cord adaptation to vitamin D deficiency in amyotrophic lateral sclerosis, \$3,000 (PI).

Funding Applied For:

November 2014

NSERC – Understanding the molecular mechanisms governing the actions of vitamin D on oxidative stress, endoplasmic reticulum stress and apoptosis - \$270,801 over 5 years (PI)

Results: Rejected

Hood, David A.

Funding Received:

2015

Pan Am/Parapan 2015 Minor Grant to support Muscle Health Awareness Day (MHAD6) (\$2000)

2014-17

Mitacs (University-Industry) partnership grant (\$30,000 per year).

2013-18

Canadian Institutes for Health Research (CIHR) Research Grant entitled "Mitochondria in Aging Skeletal Muscle" (117,937 per year).

2011-16

CIHR Research Grant entitled "Autophagy in skeletal muscle" (103,661 per year).

2011-16

Natural Science and Engineering Research Council of Canada (NSERC) Discovery Grant entitled: "Mitochondrial Biogenesis in Skeletal Muscle" (\$110,000 per year).

Kuk, Jennifer L.

Funding Received:

2014-18

Canadian Institutes of Health Research (CIHR) – Co-Investigator, PI: Geoff Ball, U of Alberta: \$627,877

Developing and Validating the Readiness and Motivation Interview for Families (RMI-Family) Managing Pediatric Obesity

2013-2015

CIHR – New Investigator Bridge Funding (#131594): \$100,000 (Co-PI)

Causes and Implications of Metabolically Healthy Obese.

2013-2017

National, Heart, Lung, and Blood Institute, 1R01HL114857-01A1: \$5,587,453 (Co-Investigator).
Resistance and Cardiorespiratory Time-matched Exercise in Youth: A Randomized Clinical Trial (RCT:RCT).

McDermott, John C.

Funding Received:

2013-2018

CIHR Operating Grant, \$578,000 Regulation of MEF2 in cardiac and skeletal muscle cells

2013-2018

CIHR Operating Grant, \$542,000 Role of Smad7 in Cardiac and Skeletal muscle

2012-2017

NSERC Discovery grant, \$150,000 Role of AP-1 in skeletal myogenesis

Perry, Christopher G. R.

Funding Received:

04/2015

NSERC Research Tools and Instruments Grant (P.I.) - Title: A core in vivo microCT imaging system for analyzing body composition, circulation and cardiorespiratory function in rodents.

Co P.I.s: Rolando Ceddia, Michael Riddell, Anthony Scime, David Hood, Tara Haas

Total Award: \$150,000

Riddell, Michael C.

Funding Received:

(10/01/2014 - 09/30/2016).

JDRF Operating Grant \$286,920.04 Project title: Preclinical drug development of somatostatin receptor 2 antagonists for the prevention of recurrent hypoglycemia in type 1 diabetes. Grant JDRF 2-SRA-2014-268-M-R.

Roudier, Emilie

Funding Received:

Embassy of France in Canada - Public and international promotion of education - Grant agreement for Science and Technology to organize a symposium on Global perspective on health: New approaches for cardiovascular health - Awarded 4,000€

York University Internal Award: Academic innovation fund - Online course - "Anatomie et physiologie humaine" - \$5,000

Funding Applied For:

NSERC Discovery Grants Program; Skeletal muscle angiogenesis: Role of the DNA damage response machinery - Not awarded

Tsushima, Robert

Funding Applied For:

2015 – 2020

CIHR - Endogenous Cholesterol Regulation of Islet Stimulus-Secretion Coupling
\$159,964/year

2015 - 2020

CIHR - SNARE Protein Regulation of Cardiac Ion Channels and ANP Secretion
\$159,860/year

**Appendix 3: AWARDS RECEIVED between May 1, 2014 –
April 30, 2015**

Belcastro, Angelo N.

Hood, David A.

Canadian Society for Exercise Physiology (CSEP) John R. Sutton Lecturer, October 2015

Kuk, Jennifer L.

TOPS New Investigator Award – Canadian Obesity Network (2015)

McDermott, John C.

McLaughlin Research Chair, Faculty of Science, York University 2012-2017

Appendix 4: Peer-reviewed publications and submitted manuscripts by MHRC Faculty members between May 1, 2014 – April 30, 2015

Adegoke, Olasunkanmi A. J.

Adegoke OA, Bates HE, Kiraly MA, Vranic M, Riddell MC, Marliss EB. Exercise in ZDF rats does not attenuate weight gain, but prevents hyperglycemia concurrent with modulation of amino acid metabolism and AKT/mTOR activation in skeletal muscle. *European Journal of Nutrition*, Published Online August 2014. DOI 10.1007/s00394-014-0754-4

Jeganathan S, Abdullahi A, Zargar S, Maeda N, Riddell MC, **Adegoke OA**. Amino acid-induced impairment of insulin sensitivity in healthy and obese rats is reversible. *Physiological Reports*. 2014 Jul 4;2(7). pii: e12067. doi: 10.14814/phy2.12067.

Belcastro, Angelo N.

Biro, Olivier

Pelletier J, Roudier E, Abraham P, Fromy B, Saumet JL, **Biro, O**, Sigaucho-Roussel D. VEGF-A promotes both pro-angiogenic and neurotrophic capacities for nerve recovery after compressive neuropathy in rats. *Molecular Neurobiology*, 51: 240-251, 2015.

Ceddia, Rolando B.

Wu MV, Bikopoulos G, Hung S, **Ceddia RB**. Thermogenic capacity is antagonistically regulated in classical brown and white subcutaneous fat depots by high-fat diet and endurance training in rats: Impact on whole-body energy expenditure. *J Biol Chem*. 289(49):34129-40, 2014.

Pistor KE, Sepa-Kishi D, Hung S, **Ceddia RB**. Lipolysis, lipogenesis, and adiposity are reduced while fatty acid oxidation is increased in visceral and subcutaneous adipocytes of endurance-trained rats. *Adipocyte* 4(1):22-31, 2015.

Mortazavi S, Gonzalez R, **Ceddia R**, Unniappan S. Long-term infusion of nesfatin-1 causes a sustained regulation of whole-body energy homeostasis of male Fisher 344 rats. *Front Cell Dev Biol*. 8;3:1-12, 2015.

Connor, Michael K.

Shpilberg Y, **Connor MK**, Riddell MC. The direct and indirect effects of corticosterone and primary adipose tissue on MCF7 breast cancer cell cycle progression. *Horm. Mol. Biol. Clin. Investig*. 2015 Apr 14. pii: /j/hmbci.ahead-of-print/hmbci-2015-0003/hmbci-2015-0003.xml. doi: 10.1515/hmbci-2015-0003.

Thomas, M.M., D.C. Wang, D.M. D'Souza, M.P. Krause, A.S. Layne, D.S. Criswell, H.M. O'Neill, **M.K. Connor**, J.E. Anderson, B.E. Kemp, G.R. Steinberg and T.J. Hawke. Muscle-Specific AMPK β 1- β 2-null mice display a myopathy resultant from impairments in blood flow. *Faseb J*. **28**, 2098-2107, 2014.

Dionyssiou, M.G., S. Ehyai, E. Avrutin, **M.K. Connor** and J.C. McDermott. Glycogen synthase kinase 3 β represses Myogenin function in Alveolar Rhabdomyosarcoma. *Cell Death Dis.* **5**, e1054; doi: 10.1038/cddis.2014.58; 2014.

Gage, William H.

Verniba D, Vergara ME, **Gage WH**. Force plate targeting has no effect on spatiotemporal gait measures and their variability in young and healthy population. *Gait Posture.* 2015 Feb;41(2):551-6. doi: 10.1016/j.gaitpost.2014.12.015. Epub 2015 Jan 5. PubMed PMID: 25737237.

Chee JN, **Gage WH**, McIlroy WE, Zabjek KF. Development of a video-based technique for ambulatory monitoring of foot placement with an instrumented rollator. *J Rehabil Med.* 2015 Feb 23;47(3):273-7. doi: 10.2340/16501977-1907. PubMed PMID: 25436942.

Tung JY, **Gage WH**, Poupart P, McIlroy WE. Upper limb contributions to frontal plane balance control in rollator-assisted walking. *Assist Technol.* 2014 Spring; 26(1):15-21; quiz 22-3. PubMed PMID: 24800450.

Phadke CP, Ismail F, Boulias C, **Gage W**, Mochizuki G. The impact of post-stroke spasticity and botulinum toxin on standing balance: a systematic review. *Expert Rev Neurother.* 2014 Mar;14(3):319-27. doi: 10.1586/14737175.2014.887443. Epub 2014 Feb 10. Review. PubMed PMID: 24506569.

Haas, Tara L.

Beaudry, J. E. Dunford, E. Leclair, E. Mandel, A. Peckett, **T.L. Haas** and M.R. Riddell. Voluntary exercise improves metabolic profile in high-fat fed glucocorticoid treated rats. *J. Appl. Physiol.* In press Mar 2015; doi: 10.1152/jappphysiol.00467.2014

Uchida, C., E. Nwadozi, A. Hasanee, S. Olenich, I.M. Olfert and **T.L. Haas**. Muscle derived vascular endothelial growth factor regulates microvascular remodelling in response to increased shear stress in mice. *Acta Physiol (Oxf)*, In press Feb. 2015 doi: 10.1111/apha.12463

Slopack, D., E. Roudier, S.T.K. Liu, E. Nwadozi, O. Birot, **T.L. Haas**. Forkhead BoxO transcription factors restrain exercise-induced angiogenesis. *J Physiol.* 2014, 592(Pt 18):4069-82; doi: 10.1113/jphysiol.2014.275867.

Hamadeh, Mazen J.

Parikh S, **Hamadeh MJ**, Kuk JL. Serving size estimation for healthier and unhealthier versions of food. *J Hum Nutr Diet 2015 (in revision)*.

Seevaratnam R, Tarnopolsky MA, **Hamadeh MJ**. Coffee is more effective than caffeine and chlorogenic acid in reducing oxidative stress, inflammation and the pro-apoptotic Bax in male G93A mice. *PLoS One 2014 (in revision)*.

Moghimi E, Gianforcaro A, Solomon JA, **Hamadeh MJ**. Vitamin D₃ supplementation at 50x the adequate intake attenuates disease pathophysiology in the spinal cord of male, but is toxic in female, G93A mouse model of amyotrophic lateral sclerosis. *PLoS One 2015 (in revision)*.

Moghimi E, Solomon JA, Gianforcaro A, **Hamadeh MJ**. Dietary vitamin D₃ restriction exacerbates disease pathophysiology in the spinal cord of the G93A mouse model of amyotrophic lateral sclerosis. *PLoS One* 2015 (in press).

Hood, David A.

Carter, H.N., C.C.W. Chen and **D.A. Hood**. Mitochondria, Muscle Health and Exercise with Advancing Age. *Physiology* 30:208-223, 2015.

Vainshtein, A., E.M. Desjardins, A. Armani, M. Sandri, and **D.A. Hood**. PGC-1 α modulates denervation-induced mitophagy in skeletal muscle. *Skeletal Muscle* 5:9, 2015.

Vainshtein, A., L.D. Tryon, M. Pauly, and **D.A. Hood**. The role of PGC-1 α during acute exercise-induced autophagy and mitophagy in skeletal muscle. *Am. J. Physiol. Cell Physiol.* 308:C710-C719, 2015.

Zhang, Y., L.D. Tryon and **D.A. Hood**. Absence of Bax and Bak: Implications for autophagy and alternative mitochondrial functions. In E. Hayat (Ed.) *Autophagy*, Vol 4. Elsevier, 2015 (in press).

Saleem, A., S. Iqbal, Y. Zhang and **D.A. Hood**. Effect of p53 on mitochondrial morphology, import and assembly in skeletal muscle. *Am. J. Physiol. Cell Physiol.* (in press), 2015. DOI: 10.1152/ajpcell.00253.2014

Tryon, L.D., A. Vainshtein, J.M. Memme, M.J. Crilly and **D.A. Hood**. Relationship between the regulation of muscle atrophy and mitochondrial turnover during chronic disuse. *Integr Med Res* (in press, 2015).

Iqbal, S., and **D. A. Hood**. The role of mitochondrial fusion and fission in skeletal muscle function and dysfunction. *Front Biosci.* 20(1):157-172, 2015.

Joseph AM, **Hood DA**. Relationships between exercise, mitochondrial biogenesis and type 2 diabetes. *Med Sport Sci.* 60:48-61, 2014.

Iqbal S, **Hood DA**. Cytoskeletal regulation of mitochondrial movements in myoblasts. *Cytoskeleton (Hoboken).* 71(10):564-72, 2014.

Kuk, Jennifer L.

Canning KL, Brown RE, Wharton S, Sharma AM, **Kuk JL**: Edmonton Obesity Staging System Prevalence and Association with Weight Loss in a Community Obesity Clinic (*J Obesity – In Press*).

Lee J, **Kuk JL**, Ardern CI: The Relationship between Changes in Sitting Time and Mortality in Post-Menopausal U.S. Women (*Journal of Public Health - In Press*).

Fung M, Canning KL, Mirdamadi P, Ardern CI and **Kuk JL**: Lifestyle and Weight Predictors of a Healthy Overweight Profile over a 20 Year Follow-Up (*Obesity – In Press*).

Brown RE, **Kuk JL**, Lee SJ: Joint associations between visceral fat and liver fat with insulin sensitivity in obese adolescents. (*J in Biochemistry and Cell Biology – In Press*).

Brown RE, **Kuk JL**, Lee SJ: Measurement site influences abdominal subcutaneous and visceral adipose tissue in obese adolescents before and after exercise. (*Pediatric Obesity – In Press*).

Babiolakis C, **Kuk JL**, Drake JDM: Differences in lumbopelvic control and occupational behaviours in female nurses with and without a recent history of low back pain due to back injury (*Ergonomics* – Feb;58(2):235-45, 2015).

Brown RE, **Kuk JL**: Consequences of obesity and weight loss: a devil's advocate position (*Obesity Reviews* – Jan;16(1):77-87, 2015)

Carlton K, Rotondi M, Ardern CI, **Kuk JL**: Antidepressant usage influences the association between BMI and health risk factors (*Clin Obesity* – Dec 4(6), 296-302, 2014).

Poon VTW, **Kuk JL**, Ardern CI: Characteristics of young adults at-risk for metabolic syndrome: a trajectory-based approach (*PLoS* – Nov 4;9(11):e111647, 2014).

Prince R, **Kuk JL**, Ambler KA, Dhaliwal J, Ball GDC: Predictors of metabolically healthy obesity in children and youth (*Diab Care* – May;37(5):1462-8, 2014).

Canning KL, Brown RE, Jamnik RE, Art Salmon, Chris I Ardern, **Kuk JL**: Can Canadians properly use Canada's Physical Activity Guide to select light, moderate and vigorous intensity physical activity? (*PLoS* – 2014 May 16;9(5):e97927). PMID: 24835105.

McDermott, John C.

Wales S, Hashemi S, Blais A, **McDermott JC**. Global MEF2 target gene analysis in cardiac and skeletal muscle reveals novel regulation of DUSP6 by p38MAPK-MEF2 signaling. *Nucleic Acids Res.* 2015 Feb 1;42(18):11349-62. doi: 10.1093/nar/gku813. Epub 2014 Sep 12. PMID: 25217591

Perry, Christopher G. R.

Perry CGR. Is muscle hypertrophy following resistance exercise regulated by truncated splice variants of PGC-1 α ? *Acta Physiol Scand.* Oct., 212(2): 122-4, 2014. PMID: 25042237. (Invited editorial).

Williams CB, Hughes MC, Edgett BA, Scribbans TD, Simpson CA, **Perry CGR**, Gurd BJ. An examination of Resveratrol's mechanisms of action in human tissue: Impact of a single dose in vivo and dose responses in skeletal muscle ex vivo. *PLoS ONE.* 9(7): e102406, 2014. PMID: 25019209

De Sousa M, Porras DP, **Perry CGR**, Seale P, Scime A. p107 is a crucial regulator for determining the adipocyte lineage fate choices of stem cells. *Stem Cells.* May; 32(5): 1323-36, 2014. PMID: 24449206

Kang Li, Dai C, Lustig ME, Bonner JS, Mayes WH, Mokshagundam S, James FD, Thompson CS, Lin CT, **Perry CGR**, Anderson EJ, Neuffer PD, Wasserman DH, Powers AC. Heterozygous SOD2 Deletion Impairs Glucose-Stimulated Insulin Secretion, but not Insulin Action in High Fat-Fed Mice. *Diabetes.* 63(11):3699-710, 2014 Nov. PMID: 24947366

Beaudoin MS, **Perry CGR**, **Arnell A**, **Chabowski A**, **Simpson JA**, **Wright DC**, **Holloway GP**. In the ZDF rat, impairments in mitochondrial palmitoyl-CoA respiratory kinetics that precede the development of diabetic cardiomyopathy are prevented by resveratrol supplementation. *J Physiol.* Jun 15; 592 (Pt 12): 2519-33, 2014. PMID: 24639481

Riddell, Michael C.

M.C. Riddell, S. Pollack, H. Shojaei, J. Kalish and H. Zisser. Advances in exercise, physical activity, and diabetes mellitus. *Advanced Technology and Treatments in Diabetes (ATTD) 2014 Yearbook*, February 2015.

J.E. Yardley and **M.C. Riddell**. Athletes with Chronic Conditions: Diabetes. In *Fluid Balance, Hydration, and Athletic Performance*. Editors: F Meyer, Szygula and B. Wilk. CRC Press, in review.

B.A. Perkins and **M.C. Riddell**. Professional Diabetes Educators Webinar: Type 1 Diabetes and Exercise: Optimizing the Medtronic MiniMed® Veo™ Insulin Pump and Continuous Glucose Monitoring for Better Glucose Control. Presented Toronto Spring 2014, Available at <http://www.snwebcastcenter.com/webcast/medtronic/>

RE Brown, KL Canning, M Fung, D Jiandani, **MC Riddell**, AK Macpherson, JL Kuk. Influence of Body Weight Class, Weight Loss Status, and Exercise Intensity on Calorie Estimation of Exercise and Food. Appetite. (Submitted March 9th, 2015).

Beaudry JL, Dunford EC, Leclair E, Mandel ER, Peckett AJ, Haas TL, **Riddell MC**. Voluntary exercise improves metabolic profile in high-fat fed glucocorticoid-treated rats. *J Appl Physiol* (1985). 2015 Jun 1;118(11):1331-43. doi: 10.1152/jappphysiol.00467.2014. Epub 2015 Mar 19. PubMed PMID: 25792713.

DP Zaharieva, LA Miadovnik, CP Rowan, RJ Gumieniak, VK Jamnik, and **MC Riddell**. The effects of acute caffeine supplementation on reducing exercise-associated hypoglycemia in individuals with type 1 diabetes mellitus. *Diabetic Medicine* (accepted 2015 May-15).

Mohajeri S, Perkins BA, Brubaker PL, **Riddell MC**. Diabetes, trekking and high altitude: recognizing and preparing for the risks. *Diabet Med*. 2015 May 12. doi: 10.1111/dme.12795. [Epub ahead of print] PubMed PMID: 25962798.

Shpilberg Y, Connor MK, **Riddell MC**. The direct and indirect effects of corticosterone and primary adipose tissue on MCF7 breast cancer cell cycle progression. *Horm Mol Biol Clin Investig*. 2015 Apr 14. pii: /j/hmbci.ahead-of-print/hmbci-2015-0003/hmbci-2015-0003.xml. doi:10.1515/hmbci-2015-0003. [Epub ahead of print] PubMed PMID: 25870971.

Mohajeri S, **Riddell MC**. Advances in exercise, physical activity, and diabetes mellitus. *Diabetes Technol Ther*. 2015 Feb;17 Suppl 1:S88-95. doi:10.1089/dia.2015.1511. PubMed PMID: 25679435.

Pivovarov JA, Taplin CE, **Riddell MC**. Current perspectives on physical activity and exercise for youth with diabetes. *Pediatr Diabetes*. 2015 Mar 9. doi: 10.1111/pedi.12272. [Epub ahead of print] PubMed PMID: 25754326.

Zaharieva DP, **Riddell MC**. Prevention of exercise-associated dysglycemia: a case study-based approach. *Diabetes Spectr*. 2015 Jan;28(1):55-62. doi: 10.2337/diaspect.28.1.55. PubMed PMID: 25717279; PubMed Central PMCID: PMC4334080.

Yardley JE, Kenny GP, Perkins BA, **Riddell MC**, Goldfield GS, Donovan L, Hadjiyannakis S, Wells GA, Phillips P, Sigal RJ; on behalf of the READI trial investigators. Resistance Exercise in Already Active Diabetic Individuals (READI): Study Rationale, Design and Methods for a Randomized

Controlled Trial of Resistance and Aerobic Exercise in Type 1 Diabetes. *Contemp Clin Trials*. 2015 Jan 2. pii: S1551-7144(14)00202-X. doi: 10.1016/j.cct.2014.12.017. [Epub ahead of print] PMID: 25559915

Yardley JE, Zaharieva DP, Jarvis C, **Riddell MC**. The "Ups" and "Downs" of a Bike Race in People with Type 1 Diabetes: Dramatic Differences in Strategies and Blood Glucose Responses in the Paris-to-Ancaster Spring Classic. *Can J Diabetes*. 2014 Dec 6. pii: S1499-2671(14)00577-2. doi: 10.1016/j.jcjd.2014.09.003. [Epub ahead of print] PubMed PMID: 25492557

A.B. Evert, **M.C. Riddell**. Lifestyle Intervention: Nutrition Therapy and Physical Activity. *Med Clin North Am*. 2015 Jan;99(1):69-85. doi: 10.1016/j.mcna.2014.09.001. Epub 2014 Oct 25. PMID: 25456644.

CP Rowan, L. Miadovnik, **MC. Riddell**, MA Rotondi, N Gledhill and VK. Jamnik. Identifying persons at risk for developing type 2 diabetes in a concentrated population of high risk ethnicities in Canada using a risk assessment questionnaire and point-of-care capillary blood HbA1c measurement. *BMC Public Health* 2014, 14:929 doi:10.1186/1471-2458-14-929. Published: 8 September 2014.

Robertson K, **Riddell MC**, Guinhouya BC, Adolfsson P, Hanas R; International Society for Pediatric and Adolescent Diabetes. ISPAD Clinical Practice Consensus Guidelines 2014. Exercise in children and adolescents with diabetes. *Pediatr Diabetes*. 2014 Sep;15 Suppl 20:203-23. doi: 10.1111/pedi.12176. PubMed PMID: 25182315.

Adegoke OA, Bates HE, Kiraly MA, Vranic M, **Riddell MC**, Marliss EB. Exercise in ZDF rats does not attenuate weight gain, but prevents hyperglycemia concurrent with modulation of amino acid metabolism and AKT/mTOR activation in skeletal muscle. *Eur J Nutr*. 2014 Aug 13. [Epub ahead of print] PubMed PMID: 25120109.

Jeganathan S, Abdullahi A, Zargar S, Maeda N, **Riddell MC**, Adegoke OA. Amino acid-induced impairment of insulin sensitivity in healthy and obese rats is reversible. *Physiol Rep*. 2014 Jul 4;2(7). pii: e12067. doi: 10.14814/phy2.12067. Print 2014 Jul 1. PubMed PMID: 24997070.

Chiang JL, Kirkman MS, Laffel LM, Peters AL; Type 1 Diabetes Sourcebook Authors. Type 1 diabetes through the life span: a position statement of the American Diabetes Association. *Diabetes Care*. 2014 Jul;37(7):2034-54. doi:10.2337/dc14-1140. PubMed PMID: 24935775.

RE Brown, **MC Riddell**, AK Macpherson, JL Kuk. All-cause and cause-specific mortality risk in U.S. adults with and without type 2 diabetes: Influence of physical activity, pharmacological treatment and glycemic control. *J Diabetes Complications*. 2014 May-Jun;28(3):311-5. PMID: 23886620.

Roudier, Emilie

Slopack D, **Roudier E**, Liu ST, Nwadozi E, Birot O, Haas TL. Forkhead BoxO transcription factors restrain exercise-induced angiogenesis. *J Physiol*. 2014 Sep 15;592(Pt 18):4069-82.

Pelletier J, **Roudier E**, Abraham P, Fromy B, Saumet JL, Birot O, Sigaudou-Roussel D. VEGF-A promotes both pro-angiogenic and neurotrophic capacities for nerve recovery after compressive neuropathy in rats. *Mol Neurobiol*. 2015 Feb;51(1):240-51.

Scimè, Anthony

Downey J, Lauzier D, Kloen, P, Klarskov K, Richter M, Hamdy R, Faucheux N, **Scimè A**, Balg F, Grenier G. (2015). Mesenchymal cells with brown adipocyte potential in human skeletal muscle. *Bone*. Feb;71:164-70 .

De Sousa M, Porras DP, Seale P, Perry CGR and **Scimè A**. (2014). p107 is a crucial regulator for determining the adipocyte lineage fate choices of stem cells. *Stem Cells*. May;32(5):1323-36.