Appendix 2: FUNDING RECEIVED or CONTINUING between May 1, 2015 – April 30, 2016

**Adegoke, Olasunkanmi A. J.**
Funding Received:

NSERC Discovery Grant  
Title: “Mechanisms of regulation of skeletal muscle mass and growth”  
5 years

**Backx, Peter H.**
Funding Received:

NSERC CHRP grant (M. Radisic PI, P. Backx co-PI, Kumar coPI)  
Platform technology for maturation of human stem cell derived cardiomyocytes and cardiotoxicity screening  
290,000 3 years  
Start June 2016

CIHR Operating grant (P. Backx PI)  
Next Generation Stem Cell for the heart  
780,000 5 years  
Start Oct 2015

CIHR Operating grant (P. Backx PI)  
Regulation of contractility by NCX and Ito  
580,000 5 years  
Start March 2013

CIHR Operating grant (P. Backx PI)  
Mechanisms of Atrial Fibrillation induced by exercise  
805,000 5 years  
Start March 2012

CIHR Operating grant (CC Hui PI, P. Backx co-PI)  
Mechanisms for regulation of the cardiac conduction system by homeobox transcription factors  
899,000 10 years  
Start March 2009

**Birot, Olivier**
Funding Received:

Heart and Stroke, Grant-in-Aid, Co-applicant with Drs. Haas and Ellis, $266,211 / 3 years (2015-2018), Awarded.
Ceddia, Rolando B.
Funding Received:

NSERC, Discover Grant ($160,000)
Operating Funding - Awarded (Principal Applicant)
Regulation of whole-body energy homeostasis
Term of funding: 2016 - 2020

NSERC RTI (Co-applicant)
Biomolecular Imager for analysis of cellular and viral proteins and nucleic acids.

NSERC RTI (Co-applicant)
Automated multi-channel fluorescence imaging system for extended time lapse and image stitching analyses. $121,539

Drake, Janessa D. M.
Funding Received:

NSERC Discovery Grant
May 2012- Apr 2017
Thoracic and Lumbar Spine Biomechanics
$29,000/year

Funding Applied For:

CFI JELF (Sole Investigator)
Decision Announced June 2016
Understanding the spine through the use of dynamic interactive virtual reality based testing environments
Total Project Cost: $472,493 ($150,000 requested from CFI)

Edgell, Heather
Funding Received:

CFI John R. Evans Leaders Fund - $100,000 – Women’s cardiovascular health: sexually dimorphic cardiovascular and autonomic responses to stressors

CFI-Infrastructure Operating Fund - $4,000

Ontario Research Fund- $100,000 – Women’s cardiovascular health: sexually dimorphic cardiovascular and autonomic responses to stressors

Junior Faculty Award - $2,000 – Chemoreflex function in the supine and upright postures in men and women throughout the menstrual cycle
Conference Travel Award - $1,000 – APS Conference: Cardiovascular, Renal and Metabolic Disease in Annapolis, MD.

NSERC Discovery Grant - $120,000 over 5 years – Cerebrovascular and ventilatory responses to autonomic reflex stimulation in supine and upright postures in women throughout the menstrual cycle and men

**Funding Applied For:**

James H. Cummings Foundation - $49,777 USD
J. P. Bickell Foundation - $64,884

**Haas, Tara L.**

**Funding Received:**

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”

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. Birot

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”

**Hood, David A.**

**Funding Received:**
Natural Science and Engineering Research Council of Canada Research Tools and Instruments Grant entitled: “in vivo CT Imager” ($150,000) (Co-applicant, PI, C. Perry)

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

Canadian Institutes for Health Research (CIHR) Research Grant entitled "Autophagy in skeletal muscle" (103,661 per year).
Natural Science and Engineering Research Council of Canada Discovery Grant entitled: “Mitochondrial Biogenesis in Skeletal Muscle” ($110,000 per year).

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

**Hynes, Loriann**

**Funding Received:**

2016 York University Faculty of Health Minor Research Grant
2016 York University Faculty of Health Junior Faculty Funds

**Funding Applied For:**

2016 NOCSAE Pilot Study Grant (Letter of Intent Submitted)

**Kuk, Jennifer L.**

**Funding Received:**

Predictors of Back Pain: Longitudinal Follow-up of Nursing Students, York University, Faculty of Health Minor Research Grant (2014-2016) - $3,000 (Principal Investigator).

Developing and Validating the Readiness and Motivation Interview for Families (RMI-Family) Managing Pediatric Obesity (CIHR – Co-Investigator, PI: Geoff Ball, U of Alberta; 2014-18: $627,877)

Causes and Implications of Metabolically Healthy Obese. Canadian Institutes of Health Research – New Investigator Bridge Funding (2013-2015 - #131594): $100,000 (Co-PI)


**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:**

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. April 1, 2015.
Co P.I.s: Rolando Ceddia, Michael Riddell, Anthony Scime, David Hood, Tara Haas, $150,000
**Riddell, Michael C.**

**Funding Received:**


NSERC Discovery Grant (individual- 3rd renewal). $165,000 (2013-2017), Project Title: Examining the mechanisms for the lipolytic and antilipolytic effects of glucocorticoids in adipose tissue. Grant #261306

NIH Operating Grant #1DP3DK101075-01: Control systems for Artificial Pancreas use during and after exercise. $2,478,076 (2013-2017)- Subcontract to York= $364,000.

**Roudier, Emilie**

**Funding Received:**

Grant for science and technology, Consulate general of France in Toronto.
To support the organization of a symposium “New technologies and cardiovascular health: a global perspective from EHealth, bioinformatics to rehabilitation”, November 5th-6th 2015. 4,000 Euros.

Co-applicant on CIHR Operating Grant 2013-2017: Microvascular remodeling of the adipose and muscle tissues in diet-induced obesity: regulation by FoxO proteins. Principal investigator Dr. Tara Haas, Funding: 400K CAD for 4 years.

**Scime, Anthony**

**Funding Received:**

NSERC Discovery Grant 2012 ($125,000 for 5 years)

**Funding Applied For:**

CDA “Targeting stem cells to improve metabolic disorders” 3 years $300,000
CIHR “Controlling stem cell fates: A role for bioenergetics” 5 years $900,000

**Tsushima, Robert**

**Funding Received:**

2014.09 – 2016.08
Infrastructure Operating Funding
Canadian Foundation for Innovation - $37,877 (total)

**Funding Applied For:**

2016.07 – 2019.06
SNARE Protein Regulation of Cardiac Ion Channels and ANF Secretion
Principal Investigator: Robert G. Tsushima  
Heart and Stroke Foundation of Ontario - $300,000 (total)

2016.07 – 2019.06
Role of Endogenous Cholesterol in Beta-Cell Stimulus-Secretion Coupling
Principal Investigator: Robert G. Tsushima  
Canadian Diabetes Association - $300,000 (total)

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

**Backx, Peter H.**  
CFI Awards: John Evans Leaders Award, Toronto Cardiovascular Assessment Centre, 2015: York University

John Foester Distinguished Lecture Award, ICS, St Boniface Hospital

Canada Research Chair in Cardiovascular Biology, York University (Jan 2016)

**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)
Appendix 4: Peer-reviewed publications and submitted manuscripts by MHRC Faculty members between May 1, 2015 – April 30, 2016

Adegoke, Olasunkanmi A. J.


Backx, Peter H.


**Birot, Olivier**

Aiken J, Roudier E, Ciccone J, Drouin G, Stromberg A, Vojnovic J, Olfert IM, Haas T, Gustafsson T, Grenier G, Birot O. Phosphorylation of murine double minute-2 on Ser166 is downstream of VEGF-A in exercised skeletal muscle and regulates primary endothelial cell migration and FoxO gene expression. *FASEB J 2006, [In press]*


**Ceddia, Rolando B.**


**Connor, Michael K.**


**Drake, Janessa D.M.**


**Edgell, Heather**


**Gage, William H.**


**Haas, Tara L.**

J. Aiken, E. Roudier, J. Ciccone, G. Drouin, A. Stromberg, J. Vojnovic, I. M. Olfert, T.L. Haas, T. Gustafsson, G. Grenier, O. Birot. Phosphorylation of Murine Double Minute-2 on Ser166 is downstream of VEGF-A in exercised skeletal muscle and regulates primary endothelial cells migration and FoxO gene expression. Accepted *FASEB J.*, Nov. 2015; fj.15-276964


**Hamadeh, Mazen J.**


Hood, David A.


Vainshtein, A., E.M. Desjardins, A. Armani, M. Sandri, and D.A. Hood. PGC-1α modulates denervation-induced mitophagy in skeletal muscle. Skeletal Muscle 5:9, 2015. [Biomed central statistics reveal that this article was accessed 2300 times in 4 months between March and June, 2015]


**Kuk, Jennifer L.**

Kuk JL, Brown RE: Aspartame and sucrose intake is associated with impairments in glucose tolerance in obesity (APNM – In Press).


Kuk JL and Wharton S: Differences in Weight Change Trajectory Patterns in a Publicly Funded Adult Weight Management Center (Obesity Science & Practice – In Press).


Heinzle S, Ball GDC, Kuk JL: Prevalence and Predictors of Metabolically Healthy Obese Adolescents (Pediatric Obesity – In Press)


Ranjbar M, Rotondi MA, Ardern CI, Kuk JL: Polycyclic Aromatic Hydrocarbon Biomarkers are Associated with Metabolic Syndrome, Dyslipidemia, Hypertension and Type 2 Diabetes (PLOS ONE – 2015 Sep 4;10(9):e0137536. doi: 10.1371/journal.pone.0137536. eCollection 2015).


McDermott, John C.


**Perry, Christopher G. R.**

Perry CGR, Wright DC. Challenging dogma: Is hepatic lipid accumulation in Type 2 Diabetes due to mitochondrial dysfunction? In Press, J Physiol. (Invited editorial)


**Riddell, Michael C.**

Michael C. Riddell and Craig E. Taplin Chapter Title: Exercise in children with type 1 diabetes. In Research into Childhood-Onset Type 1 Diabetes: From Study Design to Improved Management. Editors: Andrea E. Scaramuzza, Carine de Beaufort, Ragnar Hanas. Springer in press.


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 May;22(2):91-100.

**Roudier, Emilie**


**Scimè, Anthony**


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**Appendix 5: Additional Specialized Equipment**

**Hynes, Loriann**

GE LOGIQ e Duplex Doppler Ultrasound Unit for vascular and musculoskeletal evaluation

**Perry, Christopher G. R.**

Bruker Skyscan 1278 *in vivo* microCT imager for body composition in mice/rats
4 Oroboros high-resolution respirometers
2 PTI high resolution spectrofluorometers