

# CURRICULUM VITAE

June 1, 2016

## PERSONAL DATA:

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Name: **Raylene Alison REIMER, Ph.D., R.D.**  
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Nationality: Canadian  
Children: Joshua (Born 2005)

## PROFESSIONAL EXPERIENCE:

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04/2011-present **Professor**, University of Calgary, Joint Appointment in the Faculty of Kinesiology and the Department of Biochemistry and Molecular Biology, Cumming School of Medicine.  
07/2011-08/2012 **Associate Dean Graduate Education**, Faculty of Kinesiology, University of Calgary.  
07/2005-03/2011 **Associate Professor**, University of Calgary, Joint Appointment in the Faculty of Kinesiology and the Department of Biochemistry and Molecular Biology, Cumming School of Medicine.  
05/2000-06/2005 **Assistant Professor**, University of Calgary, Joint Appointment in the Faculty of Kinesiology and the Department of Biochemistry and Molecular Biology, Cumming School of Medicine.  
12/1997-12/1999 **Post-Doctoral Fellow**, Nestle Research Center (Lausanne, Switzerland) Molecular Nutrition Group. Supervisor: Dr. Katherine Macé.  
09/1997-11/1997 **Clinical Dietitian**, Chinook Health Region (Lethbridge, Canada)

## EDUCATION:

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09/93-04/97 **Ph.D. in Nutrition and Metabolism**, University of Alberta (Edmonton, Canada) "Regulation of Intestinal Proglucagon Expression and GLP-1 Secretion by Diet in Normal and Diabetic States." Supervisor: Dr. Michael I. McBurney.  
01/97-08/97 **Co-ordinated Dietetic Internship**, University of Alberta (Edmonton, Canada) Placements with: British Columbia Cancer Agency (Vancouver), Vancouver Public Health (Vancouver), Abbotsford General Hospital (Abbotsford), Lethbridge Regional Hospital (Lethbridge), Diabetes & Lipid Education Center (Lethbridge).  
09/89-04/93 **Bachelor of Science with Distinction (Specialization: Foods & Nutrition)**, University of Alberta (Edmonton, Canada)

## **ACHIEVEMENTS AND AWARDS:**

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- 2015 Students Union Teaching Excellence Award Nominee  
2015 Researcher of the Month – Canadians for Health Research  
2015 University of Calgary Teaching Award for Graduate Supervision Nominee  
2014 Killam Graduate Supervision Award Nominee  
2013 Fellow of The Obesity Society  
2013 Graduate Students' Association Supervisory Excellence Award Nominee  
2012 Centrum Foundation New Scientist Award for Outstanding Research in Nutrition – Canadian Nutrition Society  
2010-15 BMO Co-Chair in Healthy Living – Alberta Children's Hospital Foundation  
2010 University Research Grant Committee Travel Grant Award  
2009 Canada's Top 40 Under 40 Nominee  
2007 Award of Excellence for Outstanding Contributions in Research, Faculty of Kinesiology  
2006 University Research Grant Committee Travel Grant Award  
2002 University Research Grant Committee Travel Grant Award  
2000-01 Research Excellence Envelope Award, Alberta Innovation and Science  
Alberta Heritage Foundation for Medical Research Studentship and Research Allowance  
Natural Sciences & Engineering Research Council (NSERC) Postgraduate PGSB Scholarship  
1993-97 Walter H. Johns Graduate Fellowship  
Isaak Walton Killam Memorial Scholarship  
1993-95 Natural Sciences & Engineering Research Council (NSERC) Postgraduate PGSA Scholarship  
1995 Winner of the American Institute of Nutrition/Procter & Gamble Graduate Student Research Award Abstract Competition at Experimental Biology  
1994 Gold Winner of the Mary Ecclestone Graduate Student Award at the Canadian Federation of Biological Societies Wyeth Graduate Student Competition  
1989-93 First Class Standing  
Medical Research Council Postgraduate Scholarship (Declined)  
Russel Food Equipment Scholarship  
1993 Amy M. Coates Memorial Medal in Foods & Nutrition  
David Butchart Pope Scholarship  
1991-92 Board of Governors Prize in Home Economic  
1992 NSERC Undergraduate Student Research Award  
Louise McKinney Post-Secondary Scholarship

## **ADVISORY/EDITORIAL BOARD MEMBERSHIPS:**

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- Strategic Clinical Network Research and Innovation Advisory Committee (Diabetes, Obesity and Nutrition) February 2014 – present  
Associate Editor, Applied Physiology, Nutrition and Metabolism (2010-present)  
Alberta Innovates-Health Solutions, Innovation Platforms Working Group (2011-2012)  
Brenda Strafford Foundation Chair in Geriatric Medicine, Advisory Committee (2012-2015)

Abbott Nutrition, Prebiotics Advisory Board (Abbott Canada, Saint-Laurent, Québec, 2010)

### **PROFESSIONAL SOCIETY MEMBERSHIPS:**

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College of Dietitians of Alberta  
The Obesity Society  
Canadian Nutrition Society  
American Society for Nutritional Sciences  
Canadian Obesity Network  
Canadian Obesity Network – Calgary Chapter

### **RESEARCH FUNDING:**

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NSERC (Natural Sciences & Engineering Research Council) Discovery Grant (04/2016-03/2021) Mechanisms by which early life nutritional factors program postnatal metabolism  
Principal Investigator: \$280,000.

CIHR (Canadian Institutes of Health Research) Operating Grant (2014-2018) Prebiotic fiber supplementation and gut microbiota in non-alcoholic fatty liver disease. Principal Investigator: \$618,884.

General Mills Inc., Minneapolis, MN (2016-2018) Effect of Inulin and Other Fiber Source(s) on the Microbiome in Healthy Adults. Principal Investigator: \$297,000.

Crohn's & Colitis Foundation of America – Broad Medical Research Program Grant (2015-2016) Nutrition optimization in malnourished patients with Crohn's disease is associated with beneficial gut microbiome changes. Co-investigator: \$107,295 USD. Principal Investigator: Maitreyi Kothandaraman.

Dairy Farmers of Canada Operating Grant (2015-2017) Exercise and Dairy Protein Interactions in the Treatment of Obesity and Adipose Tissue Inflammation. Co-Investigator: \$122,000. Principal Investigator: David Wright. Co-Investigator: Jane Shearer

CIHR Team Grant (2014-2019) A multidisciplinary approach to target chronic inflammation of the gut, liver and joint. Co-investigator: \$2,443,500. Principal Investigator: Bertus Eksteen.

Department of Pediatrics Innovation Awards Grant (2015-2016) Effect of prebiotic fiber on gut microbiota, intestinal permeability and glycemic control in children with type 1 diabetes: a pilot randomized, double-blind, placebo controlled study. Co-investigator: \$24, 930. Principal Investigator: Carol Huang.

BMO Financial Group Endowed Research Fund in Healthy Living (2013-2016) Team development in pediatric obesity. Principal Investigator: \$300,000

General Mills Inc., Minneapolis, MN (2013-2016) Effect of Combined Fiber and Protein Intake on Adiposity and Energy Intake in Overweight and Obese Adults. Principal Investigator: \$282,309.

Alberta Innovates Bio Solutions (2012-2015) Evaluation of pulse fibre supplementation in obesity and the metabolomic syndrome: generating evidence in support of health claims. Principal Investigator: \$420,900.

CIHR (Canadian Institutes of Health Research) Operating Grant (2011-2016) Dietary manipulation of gut microbiota to manage obesity and insulin resistance. Principal Investigator: \$568,565.

CIHR (Canadian Institutes of Health Research) Operating Grant Bridge Funding (04/2011-03/2012) Dietary manipulation of gut microbiota to manage obesity and insulin resistance. Principal Investigator: \$100,000.

NSERC (Natural Sciences & Engineering Research Council) Discovery Grant (04/2011-03/2016) Mechanisms by which macronutrients program postnatal metabolism. Principal Investigator: \$155,000.

URGC (University Research Grants Committee) Seed Grant (2011 – 2012) Dietary Supplementation with Prebiotic Fiber in Overweight and Obese Patients with Non-Alcoholic Steatohepatitis (NASH): A Pilot Clinical Trial. Principal Investigator: \$18,000. Co-applicants: Jill Parnell, Maitreyi Raman, Kevin Rioux.

InovoBiologic Inc. (2012-2016) Evaluation of a highly viscous fiber supplement in obese adults. Principal Investigator: \$121,420. Research Contract

InovoBiologic Inc. (2011-2012) Analysis of gut microbiota. Principal Investigator: \$6,246. Research Contract.

InovoBiologic Inc. (2010-2011) Analysis of plasma cytokines in humans. Principal Investigator: \$17,754. Research Contract.

CIHR (Canadian Institutes of Health Research) Operating Grant (04/2008-03/2011) Dietary Modulation of Integrated Gut Hormone Response to Manage Obesity. Principal Investigator: \$291,224.

NSERC (Natural Sciences & Engineering Research Council) Discovery Grant (04/2009-03/2011) Influence of Nutrients on Developmental Programming of Metabolism. Principal Investigator: \$48,000.

Agriculture Funding Consortium (2008-2011) Effect of pulses as a source of fiber and resistant starch on satiety hormone production. Principal Investigator: \$102,500.

BENEO-Orafti, Belgium (2010-2011) Prebiotics as a potential modifier of energy intake in overweight and obese adults. Principal Investigator: \$244,101. Clinical Trial Contract.

Koopmans Memorial Research Fund (2010-2011) Combined dietary and pharmacological treatment for managing obesity. Principal Investigator: \$12,300.

InovoBiologic Inc. (2010-2011) Analysis of satiety hormone samples in Zucker rats (II). Principal Investigator: \$59,967. Research Contract.

InovoBiologic Inc. (2009-2010) Analysis of satiety hormone samples in Zucker rats (I). Principal Investigator: \$36,306. Research Contract.

InovoBiologic Inc. (2009) Satiety Hormone Levels in Normal Weight Adults Taking PGX® Fiber Supplement. Principal Investigator: \$24,297. Research Contract

NSERC (Natural Sciences & Engineering Research Council) Operating Grant (2008-2009) Influence of Nutrients on Developmental Programming of Metabolism. Principal Investigator: \$32,500.

Canadian Centre for Functional Medicine (2008-2009) Evaluation of Satiety Hormone Response with Soluble Fiber Supplementation in Obesity. Principal Investigator: \$85,283. Research Contract.

Canadian Foundation for Dietetic Research (2008-2009) The Impact of High Milk Product Intake during Weight Loss on Markers of Insulin Resistance. Co-Principal Investigator: \$15,000. Co-PI: Kim Wagner Jones.

University of Calgary Public Health Initiative (2007-2009) Healthy Uni: A campus-wide health promotion initiative driven by students and focused on wellness and the prevention of obesity and type II diabetes. Co-investigator: \$160,000.

CIHR Operating Grant (2004-2007) Regulation of Obesity with Intestinal Adaptation and Diet Composition. Principal Investigator: \$296,700.

NSERC Operating Grant (2003-2008) Metabolic Outcomes of Nutrient-Gene Interactions. Principal Investigator: \$150,000.

CIHR New Emerging Team – Institute of Gender and Health (2003-2008) Sex/Gender Influences on Musculoskeletal Health Across the Lifespan. Co-Investigator: \$1,522,540

Heart and Stroke Foundation (2004-2007) Declined: Regulation of Obesity with Intestinal Adaptation and Diet Composition.

Canadian Center for Ethics in Sport (2005-2007) Evaluation of the Dietary Supplementation Patterns and Nutritional Intake in Canadian High Performance Athletes. Co-Principal Investigator: \$45,000. Co-PI: Victor Lun.

URGC Short-Term Grant (2005-2006) Prebiotic Fiber as a Potential Modifier of Satiety Hormones in Obese Humans. Principal Investigator: \$6000

Dairy Farmers of Canada/NSERC (2004-2006) The Role of Dairy in Regulating Body Weight. Principal Investigator: \$113,500

Margaret Gunn Endowment for Animal Research (2003-2005) Role of Diet Composition in Regulating Body Weight. Principal Investigator: \$36,402

Canadian Foundation for Innovation (CFI) New Opportunities (2001-2004) Creation of a Molecular Screening Facility for Functional Foods and Nutraceuticals. Principal Investigator: \$87,750

Alberta Innovation and Science (2001-2006) Nutrition, Genetics and Human Performance. Co-investigator: \$3,256,247. Co-Investigators: Gravel RA, Exner D, Frank C, Herzog W, Lau D, MacIntosh B, Nigg B, Smith D, Zernicke R.

Canadian Foundation for Innovation (2001-2006) Nutrition, Genetics and Human Performance. Co-investigator: \$3,256,247. Co-Investigators: Gravel RA, Exner D, Frank C, Herzog W, Lau D, MacIntosh B, Nigg B, Smith D, Zernicke R.

Alberta Barley Commission, Research Funding Program (2002-2004) Barley-Based Functional Foods/Nutraceuticals and Their Health Benefits. Co-investigator: \$45,000  
Co-Investigators: Temelli F, Basu T, Bell R, Field C, Vasanthan T.

Alberta Agricultural Research Institute, Farming for the Future Research Funding Program (2001-2004) Barley-Based Functional Foods/Nutraceuticals and Their Health Benefits. Co-investigator: \$205,642  
Co-Investigators: Temelli F, Basu T, Bell R, Field C, Vasanthan T.

NSERC Operating Grant (2002-2003) Impact of Nutrient-Gene Interactions on Metabolism. Principal Investigator: \$28,200

Alberta Innovation and Science Block Grant (2002-2003) Creation of a Molecular Screening Facility for Functional Foods and Nutraceuticals. Principal Investigator: \$60,000

URGC Starter Grant (2001-2002) Evaluation of Physical Activity Programs for Special Populations: A Pilot Project. Co-investigator: \$10,000. Co-investigators: Culos-Reed N, Doyle-Baker P, Paskevich D.

Alberta Innovation and Science Research Excellence Envelope (2000-2001) Molecular Nutrition and Metabolism. Principal Investigator: \$30,000

URGC Starter Grant (2000-2001) Molecular Targets in Nutrition for the Prevention of Chronic Disease. Principal Investigator: \$9,792

## **PUBLICATIONS IN REFEREED JOURNALS:**

1. **Reimer RA**, McBurney MI (1996) Dietary fiber modulates intestinal proglucagon messenger ribonucleic acid and postprandial secretion of glucagon-like peptide-1 and insulin in rats. *Endocrinology* 137:3948-3956
2. McBurney MI, **Reimer RA**, Tappenden KA (1997) Short chain fatty acids, intestinal adaptation, and nutrient utilization. *Adv Exp Med Biol* 427:135-43
3. **Reimer RA**, Field CJ, McBurney MI (1997) Ontogenic changes in proglucagon mRNA in BB diabetes prone and normal rats in response to feeding chow diets. *Diabetologia* 40:871-878
4. **Reimer RA**, Thomson ABR, Rajotte R, Basu T, Ooraikul B, McBurney MI (1997) A physiological level of rhabarb fiber increases proglucagon gene expression and modulates intestinal glucose uptake in rats. *Journal of Nutrition* 127:1923-1928
5. **Reimer RA**, Glen S, Field CJ, McBurney MI (1998) Proglucagon and glucose transporter mRNA is altered by diet and disease susceptibility in 30 day old Biobreeding BB diabetes prone and normal rats. *Pediatric Research* 44:68-73
6. **Reimer RA**, Thomson ABR, Rajotte R, Basu T, Ooraikul B, McBurney MI (2000) Proglucagon messenger ribonucleic acid and intestinal glucose uptake are modulated by fermentable fiber and food intake in diabetic rats. *Nutrition Research* 20:851-864.
7. Auer RN, Lau D, **Reimer R** (2001) Obesity in Canadian children. *Can Med Assoc J* 164:1563-1565.
8. **Reimer RA**, Darimont C, Nicolas-Métral V, Gremlich S, Rüegg UT, Macé (2001) A human cellular model for studying the regulation of glucagon-like peptide-1. *Endocrinology* 142:4522-4528.
9. Delzenne N, Ferre P, Beylot M, Daubioul C, Declercq B, Diraison F, Dugail I, Fougelle F, Foretz M, Mace K, **Reimer R**, Palmer G, Rutter G, Tavare J, Van Loo J, Vidal H (2001) Study of the regulation by nutrients of the expression of genes involved in lipogenesis and obesity in humans and animals. *Nutr Metab Cardiovasc Dis* 11(4 Suppl):118-121.
10. **Reimer RA**. (2002) The DASH diet: implications for persons with diabetes. *Canadian Journal of Diabetes*. 26(4):369-377.
11. **Reimer RA**, Leone-Vautravers P, Zbinden I, Harris CC, Pfeifer AMA, Macé K (2004) Dysregulation of fatty acid synthase mRNA in immortalized human hepatocyte cell lines in the presence of high glucose and the absence of GLUT2. *Nutrition Research* 24(5):321-336.
12. Lambert J, LaMothe JM, Zernicke RF, Auer RN, **Reimer RA**. (2005) Dietary restriction does not adversely affect bone geometry and mechanics in rapidly growing male Wistar rats. *Pediatric Research* 57(2): 227-231.
13. **Reimer RA**, Debert CT, House J, Poulin M. (2005) Dietary and metabolic differences in pre- versus postmenopausal women taking or not taking hormone replacement therapy. *Physiology and Behavior* 84(2):303-312.
14. Erdman KA, Fung TS, **Reimer RA**. (2006) Influence of Performance Level on Dietary Supplementation in Elite Canadian Athletes. *Medicine and Science in Sports and Exercise* 38:349-356.
15. **Reimer RA** (2006) Meat hydrolysate and essential amino acid-induced glucagon-like peptide-1 secretion in the human NCI-H716 enteroendocrine cell line is regulated by extracellular signal-regulated kinase 1/2 and p38 mitogen-activated protein kinases. *Journal of Endocrinology* 191:159-170.
16. Culos-Reed SN, Doyle-Baker PK, Paskevich D, Devonish J, **Reimer RA**. (2007) Evaluation of a Community-Based Weight Control Program. *Physiology & Behavior* 92:855-860.

17. Erdman KA, Fung TS, Doyle-Baker PK, Verhoef MJ, **Reimer RA**. (2007) Dietary Supplementation of High Performance Canadian Athletes by Age and Gender. *Clinical Journal of Sport Medicine* 17:458-464.
18. Eller LK, Ainslie PN, Poulin MJ, **Reimer RA**. (2008) Differential responses of circulating amylin to high-fat versus high-carbohydrate meal in healthy men. *Clinical Endocrinology* 68: 890-897.
19. **Reimer RA**, Russell JC. (2008) Glucose tolerance, lipids and GLP-1 secretion in JCR:LA-cp rats fed a high protein fiber diet. *Obesity* 16:40-46
20. Parnell JA, **Reimer RA**. (2008) Differential secretion of satiety hormones with the progression of obesity in the JCR:La corpulent rat model. *Obesity* 16:736-42.
21. Tunnicliffe JM, Erdman KA, **Reimer RA**, Lun V, Shearer J. (2008) Consumption of dietary caffeine and coffee in physically active populations: physiological interactions. *Appl Physiol Nutr Metab* 33:1301-10.
22. Chen Q, **Reimer RA**. (2009) Dairy protein and leucine alter GLP-1 release and mRNA of genes involved in intestinal lipid metabolism in vitro. *Nutrition* 25:340-349.
23. Maurer AD, Chen Q, McPherson C, **Reimer RA**. (2009) Changes in satiety hormones and expression of genes involved in glucose and lipid metabolism in rats weaned onto diets high in fiber or protein reflect susceptibility to increased fat mass in adulthood. *J Physiol Lond* 587:679-691.
24. Parnell JA, **Reimer RA** (2009) Weight loss during oligofructose supplementation is associated with decreased ghrelin and increased peptide YY in overweight and obese adults. *Am J Clin Nutr* 89:1751-1759.
25. Stephenson LE, Bebb DG, **Reimer RA**, Culos-Reed SN. (2009) Physical Activity and Diet Behaviour in Colorectal Cancer Patients Receiving Chemotherapy: Associations with Quality of Life. *BMC Gastroenterology* 9(1):60-69.
26. Lun V, Erdman KA, **Reimer RA**. (2009) Evaluation of Nutritional Intake in Canadian High Performance Athletes. *Clinical Journal of Sport Medicine* 19:405-411.
27. Drozdowski LA, **Reimer RA**, Temelli F, Bell RC, Vasanthan T, Thomson ABR. (2010)  $\beta$ -glucan extracts inhibit the in vitro intestinal uptake of long chain fatty acids and cholesterol, and downregulate genes involved in lipogenesis and lipid transport in rats. *Journal of Nutritional Biochemistry* 21:695-701.
28. Lorincz C, **Reimer RA**, Zernicke RF. (2010) High-fat, sucrose diet impairs geometrical and mechanical properties of cortical bone in mice. *Br J Nutr.* 103:1302-8.
29. Parnell JA, **Reimer RA** (2010) Effect of prebiotic fiber supplementation on hepatic gene expression and serum lipids: a dose-response study in JCR: LA-cp rats. *Br J Nutr.* 103:1577-84.
30. Eller LK, **Reimer RA**. (2010) Dairy protein attenuates weight gain in obese rats better than whey or casein alone. *Obesity* 18:704-711.
31. **Reimer RA**, Maurer AD, Lau DCW, Auer RN. (2010) Long-Term Dietary Restriction Influences Plasma Ghrelin and GOAT mRNA Level in Rats. *Physiology & Behavior* 99:605-610.
32. Eller LK, **Reimer RA**. (2010) A high calcium, skim milk powder diet results in a lower fat mass in male, energy-restricted, obese rats more than a low calcium, casein or soy protein diet. *J Nutr* 140:1234-41.



33. **Reimer RA**, Pelletier X, Carabin IG, Lyon M, Gahler R, Parnell JA, Wood S. (2010) Increased Plasma PYY Levels Following Supplementation with the Functional Fiber PolyGlycopleX® in Healthy Adults. *Eur J Clin Nutr*, 64:1186-91.
34. Eller LK, **Reimer RA** (2010) Attenuation in Weight Gain with High Calcium- and Dairy-Enriched Diets Is Not Associated with Taste Aversion in Rats: A Comparison with Casein, Whey, and Soy. *J Med Food* 13:1182-8.
35. Maurer AD, Eller LK, Hallam MC, Taylor K, **Reimer RA** (2010) Consumption of diets high in prebiotic fiber or protein during growth influences the response to a high fat and sucrose diet in adulthood in rats. *Nutrition & Metabolism* 7(1):77. *Selected for press release by the journal.*
36. Maurer AD, **Reimer RA** (2011) Maternal consumption of high prebiotic fiber or protein diets during pregnancy and lactation differentially influences satiety hormones and expression of genes involved in glucose and lipid metabolism in offspring in rats. *Br J Nutr* 105:329-338.
37. Grover GJ, Koetzner L, Wicks J, Gahler RJ, Lyon MR, **Reimer RA**, Wood S (2011) Effects of the soluble fiber complex PolyGlycopleX® (PGX®) on glycemic control, insulin secretion, and GLP-1 levels in Zucker diabetic rats. *Life Sciences* 88:392-399.
38. Cluny NL, Chambers AP, Vemuri VK, Wood JT, Eller LK, Freni C, **Reimer RA**, Makriyannis A, Sharkey KA (2011) The neutral cannabinoid CB(1) receptor antagonist AM4113 regulates body weight through changes in energy intake in the rat. *Pharmacology, Biochemistry & Behavior*, 97:537-43.
39. **Reimer RA**, Grover G, Koetzner L, Wicks J, Gahler R, Lyon M, Wood S. (2011) The Soluble Fiber Complex PolyGlycopleX® (PGX®) Lowers Serum Triglycerides and Reduces Hepatic Steatosis in High Sucrose-Fed Rats. *Nutr Res* 31:296-301.
40. Grover GJ, Koetzner L, Wicks J, Gahler RJ, Lyon MR, **Reimer RA**, Wood S (2011) Effects of the soluble fiber complex PolyGlycopleX® on insulin and glucose homeostasis and body weight in young Zucker diabetic rats. *Front Pharmacol.* 2011;2:47).
41. Tunnicliffe JM, Hittel DS, **Reimer RA**, Shearer J. (2011) Chlorogenic Acid Differentially Affects Blood Glucose in Rats via Glucose-Dependent Insulinotropic Polypeptide. *Appl Physiol Nutr Metab* 36(5):650-9.
42. Kacinik V, Lyon MR, Purnama M, **Reimer RA**, Gahler R, Green TJ, Wood S (2011) Effect of PGX®, a novel functional fibre supplement, on subjective ratings of appetite in overweight and obese women consuming a three-day structured, low calorie diet. *Nutrition & Diabetes.* e22; doi:10.1038/nutd.2011.18.
43. Parnell JA, **Reimer RA** (2012) Prebiotic fibres dose-dependently increase satiety hormones and alter Bacteroidetes and Firmicutes in lean and obese JCR:LA cp rats. *Br J Nutr* 107:601-613.
44. Fried A, Manske S, Eller LK, Lorincz C, **Reimer RA**, Zernicke RF. (2012) Skim milk powder enhances trabecular bone architecture compared with casein or whey in diet-induced obese rats. *Nutrition* 28:331-335.
45. Pyra KA, Saha DC, **Reimer RA**. (2012) Prebiotic fiber activates hepatic acetyl CoA carboxylase and suppresses glucose-dependent insulinotropic polypeptide secretion more effectively when co-administered with metformin in obese rats. *J Nutr* 142:213-20.
46. Lun V, Erdman KA, **Reimer RA** (2012) Dietary Supplementation Practices in Canadian High Performance Athletes. *International Journal of Sport Nutrition and Exercise Metabolism* 22:31-37.

47. Cluny NL, **Reimer RA**, Sharkey KA (2012) Cannabinoid signalling regulates inflammation and energy balance: the importance of the brain-gut axis. *Brain, Behavior and Immunity.* 26:691-8.
48. Parnell JA, Rioux KP, Raman M, **Reimer RA** (2012) The Potential Role of Prebiotic Fibers in Treatment of Non-alcoholic Fatty Liver Disease (NAFLD). *Liver International* 32:701-711.
49. **Reimer RA**, Pelletier X, Carabin IG, Lyon M, Gahler R, Wood S. (2012) Faecal short chain fatty acids in healthy subjects participating in a randomised controlled trial examining a soluble highly viscous polysaccharide versus control. *J Hum Nutr Diet.* 25(4):373-7.
50. Parnell JA, **Reimer RA** (2012) Prebiotic fiber modulation of the gut microbiota improves risk factors for obesity and the metabolic syndrome. *Gut Microbes* 3:29-34.
51. **Reimer RA**, Maurer AD, Eller LK, Hallam MC, Shaykhutdinov R, Vogel HJ, Weljie A. (2012) Satiety hormone and metabolomic response to an intermittent high energy diet differs in rats consuming longterm diets high in protein or prebiotic fibre. *J Proteome Res.* 11(8):4065-74.
52. **Reimer RA**, Lamothe JM, Zernicke RF (2012) Leptin Deficiency and its Effects on Tibial and Vertebral Bone Mechanical Properties in Mature Genetically Lean and Obese JCR:LA-Corpulent Rats. *Journal of Obesity*, 2012:650193.
53. **Reimer RA**, Grover GJ, Koetzner L, Gahler R, Juneja P, Lyon MR, Wood S (2012) Sitagliptin reduces hyperglycemia and increases satiety hormone secretion more effectively when used with a novel polysaccharide in obese Zucker rats. *J Nutr.* 142:1812-20
54. Chamorro C, Guilcher GMT, Khan FM, Mazil K, Schulte F, Wurz A, Williamson T, **Reimer RA**, Culos-Reed NS. (2012) EXERCISE in pediatric autologous stem cell transplant patients: a randomized controlled trial protocol. *BMC Cancer* 12(1):401
55. Capozzi LC, Lau H, **Reimer RA**, McNeely M, Giese-Davis J, Culos-Reed SN (2012) Exercise and Nutrition for Head and Neck Cancer Patients: A Patient Oriented, Clinic-Supported Randomized Controlled Trial *BMC Cancer* 12(1):446.
56. Eller LK, Saha DC, Shearer J, **Reimer RA** (2013) Dietary leucine improves whole-body insulin sensitivity independent of body fat in diet-induced obese Sprague-Dawley rats. *J Nutr Biochem.* 24:1285-1294.
57. Wagner Jones K, Eller LK, Parnell JA, **Reimer RA**. (2013) Effect of a dairy- and calcium-rich diet on weight loss and appetite during energy restriction in overweight and obese adults: a randomized trial. *Eur J Clin Nutr.* 67:371-6.
58. **Reimer RA**, Yamaguchi H, Eller LK, Lyon MR, Gahler RJ, Kacinik V, Juneja P, Wood S (2013) Changes in visceral adiposity and serum cholesterol with a novel viscous polysaccharide in Japanese adults with abdominal obesity. *Obesity* 21(9):E379-87
59. Hallam MC, **Reimer RA** (2013) A maternal high-protein diet predisposes female offspring to increased fat mass in adulthood whereas a prebiotic fibre diet decreases fat mass in rats. *Brit J Nutr* 110: 1732–1741.
60. Erdman KA, Tunnicliffe J, Lun VM, **Reimer RA**. (2013) Eating patterns and composition of meals and snacks in elite Canadian athletes. *Int J Sport Nutr Exercise Metab* 23(3):210-9.
61. Blatchford P, Ansell J, de Godoy MRC, Fahey G, Garcia-Mazcorro JF, Gibson GR, Goh YJ, Hotchkiss AT, Hutkins R, LaCroix C, Rastall RA, **Reimer R**, Schoterman M, Van Sinderen D, Venema K, Whelan K (2013) Prebiotic mechanisms, functions and applications. *Int J Probiotics and Prebiotics* 8(4):109-132.

62. Reichert RG, **Reimer RA**, Pal S, Gahler RJ, Wood S. (2013) Meal replacements and fibre supplement as a strategy for weight loss. Proprietary PGX® meal replacement and PGX® fibre supplement in addition to a calorie-restricted diet to achieve weight loss in a clinical setting. *Biotechnol Genet Eng Rev.* 2013 Oct;29(2):221-9
63. Bomhof MR, Saha DC, Reid DT, Paul HA, **Reimer RA** (2014) Combined effects of oligofructose and *Bifidobacterium animalis* on gut microbiota and glycemia in obese rats. *Obesity* 22:763-771
64. **Reimer RA**, Grover GJ, Koetzner L, Gahler RJ, Lyon MR, Wood S (2014) Combining sitagliptin/metformin with a functional fiber delays diabetes progression in Zucker rats. *Journal of Endocrinology.* 220:361-373.
65. Cowan TE, Palmnas MS, Yang J, Bomhof MR, Ardell K, **Reimer RA**, Vogel HJ, Shearer J (2014) Chronic coffee consumption in the diet-induced obese rat: impact on gut microbiota and serum metabolomics. *J Nutr Biochem* 25(4):489-495.
66. **Reimer RA**, Maathuis A, Venema K, Lyon MR, Gahler RJ, Wood S (2014) Effect of the novel polysaccharide PolyGlycopleX® on short-chain fatty acid production in a computer-controlled in vitro model of the large intestine. *Nutrients* 6:1115-1127.
67. Lambert JE, Parnell JA, Han J, Struzenegger T, Paul HA, Vogel HJ, **Reimer RA** (2014) Evaluation of yellow pea fibre supplementation on weight loss and the gut microbiota: a randomized controlled trial. *BMC Gastroenterology* 14(1):69.
68. Connors KE, Karlos AE, Gnatiuk EA, Shearer J, **Reimer RA**, Hittel DS (2014) SORT1 protective allele is associated with attenuated postprandial lipaemia in young adults. *Circulation: Cardiovascular Genetics* 7:576-582.
69. Hallam MC, **Reimer RA** (2014) Postnatal prebiotic fiber intake in offspring exposed to gestational protein restriction has sex-specific effects on insulin resistance and intestinal permeability in rats. *J Nutr* 144:1556-1563.
70. Hallam MC, Barile D, Meyrand M, German JB, **Reimer RA** (2014) Maternal high protein or prebiotic fiber diets affect maternal milk composition and gut microbiota in rat dams and their offspring. *Obesity* 22:2344-2351. *Selected for special virtual issue "It All Starts in the Womb"*
71. Eslinger JA, Eller LK, **Reimer RA** (2014) Yellow pea fiber improves glycemia and reduces *Clostridium leptum* in diet-induced obese rats. *Nutrition Research* 34:714-722.
72. Saha DC, **Reimer RA** (2014) Long-term intake of a high prebiotic fiber diet but not high protein reduces metabolic risk after a high fat challenge and uniquely alters gut microbiota and hepatic gene expression. *Nutrition Research* 34:789-796.
73. Palmnas MSA, Cowan TE, Bomhof MR, Su J, **Reimer RA**, Vogel HJ, Hittel DS, Shearer J (2014) Low-dose aspartame consumption differentially affects gut microbiota-host metabolic interactions in the diet-induced obese rat. *PLOS One* 9(10):e109841.
74. Lewinson RT, Collins KH, Vallerand IA, Wiley JP, Woodhouse LJ, **Reimer RA**, Worobets JT, Herzog W, Stefanyshyn DJ (2014) Reduced knee joint loading with lateral and medial wedge insoles for management of knee osteoarthritis: a protocol for a randomized controlled trial. *BMC Musculoskelet Disord* 15(1):405.
75. Samimi A, Ramesh S, Turin TC, MacRae JM, Sarna M, **Reimer RA**, Hemmelgarn BR, Sola DY, Ahmed SB (2014) Serum uric acid level, blood pressure and vascular Angiotensin II-responsiveness in healthy men and women. *Physiol Rep* 2(12) e12235.

76. Cluny NL, Eller LK, Keenan CM, **Reimer RA**, Sharkey KA (2015) Interactive effects of oligofructose and obesity predisposition on gut hormones and microbiota in diet-induced obese rats. *Obesity* 23:769-778. *Editor's Choice Article*.
77. Collins KH, **Reimer RA**, Seerattan RA, Leonard TR, Herzog W (2015) Using diet-induced obesity to understand a metabolic subtype of osteoarthritis in rats. *Osteoarthritis and Cartilage* 23(6):957-965.
78. Lambert JE, Myslicki J, Bomhof MR, Belke DD, Shearer J, **Reimer RA** (2015) Exercise training modifies gut microbiota in normal and diabetic mice. *Appl Physiol Nutr Metab*. 40(7):749-752.
79. Reid DT, Eller LK, Nettleton JE, **Reimer RA** (2015) Postnatal prebiotic fibre intake mitigates some detrimental metabolic outcomes of early overnutrition in rats. *Eur J Nutr* Sept 15 Epub ahead of print.
80. Collins KH, Paul HA, **Reimer RA**, Seerattan RA, Hart DA, Herzog W (2015) Relationship between inflammation, the gut microbiota, and metabolic osteoarthritis development: studies in a rat model. *Osteoarthritis & Cartilage* 23:1989-1998.
81. Lambert JE, Parnell JA, Eksteen B, Raman M, Bomhof MR, Rioux KP, Madsen KL, **Reimer RA** (2015) Gut microbiota manipulation with prebiotics in patients with non-alcoholic fatty liver disease: a randomized controlled trial protocol. *BMC Gastroenterology* 15:169.
82. Cluny NL, Keenan CM, Chelikani P, **Reimer RA**, Le Foll, B, Sharkey KA (2015) Prevention of diet-induced obesity effects on body weight and gut microbiota in mice treated chronically with  $\Delta^9$  tetrahydrocannabinol. *PLoS One* 10(12):e0144270.
83. Paul HA, Hallam MC, **Reimer RA** (2015) Milk collection in the rat using capillary tubes and estimation of milk fat content by creatinocrit. *Journal of Visualized Experiments* Dec 16;(106).
84. Collins KH, Hart DA, **Reimer RA**, Seerattan RA, Herzog W (2016) Response to diet-induced obesity produces time-dependent induction and progression of metabolic osteoarthritis in rat knees. *Journal of Orthopaedic Research* 34(6):1010-1018.
85. Lambert JE, Parnell JA, Tunnicliffe JM, Han J, Sturzenegger T, **Reimer RA** (2016) Consuming yellow pea fiber reduces voluntary energy intake and body fat in overweight/obese adults in a 12-week randomized controlled trial. *Clin Nutr*, Jan 11. pii: S0261-5614(16)00004-2.
86. Hallam MC, **Reimer RA** (2016) Impact of diet composition in adult offspring is dependent on maternal diet during pregnancy and lactation in rats. *Nutrients* 8(1):pii: E46.
87. Paul HA, Bomhof MR, Vogel HJ, **Reimer RA** (2016) Diet-induced changes in maternal gut microbiota and serum metabolomic profiles influence the nutritional programming of offspring obesity risk. *Scientific Reports*, Feb 12;6:20683.
88. Capozzi LC, McNeely ML, Lau H, **Reimer RA**, Giese-Davis J, Fung TS, Culos-Reed SN (2016) Patient reported outcomes, body composition and nutrition status in head and neck cancer patients: results from a randomized controlled exercise trial. *Cancer* 122(8):1185-1200.
89. Klein MS, Newell C, Bomhof MR, **Reimer RA**, Hittel DS, Rho JM, Vogel HJ, Shearer J (2016) Metabolomic modelling to monitor host responsiveness to gut microbiota manipulation in the BTBR mouse. *J Proteome Res* 15(4):1143-1150.
90. Collins KH, Hart DA, **Reimer RA**, Seerattan RA, Banker CW, Herzog W (2016) High-fat high-sucrose diet leads to dynamic structural and inflammatory alterations in the rat vastus lateralis muscle. *J Orthopaedic Research* Mar 17 Epub ahead of print

91. Bomhof MR, Paul HA, Geuking MB, Eller LK, **Reimer RA** (2016) Improvement in adiposity and intestinal permeability with oligofructose is modified by antibiotics in obese rats. *FASEB J* Apr 8. pii:fj.201600151R.
92. Nicolucci AC, **Reimer RA** (2016) Prebiotics as a modulator of gut microbiota in pediatric obesity. *Pediatric Obesity* Epub ahead of print Apr 13.
93. Reid DT, McDonald B, Khalid T, Vo T, Schenk P, Surette MG, Beck PL, Reimer RA, Probert CS, Rioux KP, Eksteen B (2016) Unique microbial-derived volatile organic compounds in portal venous circulation in murine non-alcoholic fatty liver disease. *BBA - Molecular Basis of Disease*. 1862(7):1337-1344.
94. Nettleton J, **Reimer RA**, Shearer J (2016) Reshaping the gut microbiota: impact of high intensity sweeteners and the link to insulin resistance. *Physiology & Behavior* Apr 15 pii:S0031-9384(16)30164-0.
95. Reid DT, Reyes JL, McDonald BA, Vo T, **Reimer RA**, Eksteen B (2016) Kupffer cells undergo fundamental changes during the development of experimental NASH and are critical in initiating liver damage and inflammation. Revisions Requested, *PLoS One*.
96. Ho J, **Reimer RA**, Doulla M, Huang C (2016) Study protocol for a randomized, double blind, placebo controlled trial of prebiotic intake on gut microbiota, intestinal permeability and glycemic control in children with type 1 diabetes. *Trials* - Revisions Requested.
97. Newell C, Bomhof MR, **Reimer RA**, Hittel DS, Rho JM, Shearer J (2016) Ketogenic diet as a metabolic-based therapeutic modality that alters the gut microbiome composition in a murine model of autism spectrum disorder. Revisions Requested *Molecular Autism*.
98. Toomey CM, Whittaker JL, Nettel-Aguirre A, **Reimer RA**, Woodhouse LJ, Ghali B, Doyle-Baker PK, Emery CA (2016) Increased abdominal and total fat mass 3-10 years following intra-articular knee injury in youth sport. Submitted. *Journal of Orthopaedic & Sports Physical Therapy*
99. Emery CA, Whittaker JL, Lohmander S, Roos EM, Bennell K, Toomey CM, **Reimer RA**, Thompson D, Ronsky J, Kuntze G, Lloyd DG, Andriacchi T, Englund M, Kraus V, Losina E, Bierma-Zeinstra S, Runar J, Peat G, Luyten F, Snyder-Mackler L, Riseberg MA, Mobisheri A, Guermazi A, Hunter DJ, Arden NK (2016) Recommendations for the development of common early pre-radiographic osteoarthritis outcomes appropriate for clinical setting. Submitted to *Osteoarthritis and Cartilage*.
100. Lewinson RT, Vallerand IA, Collins KM, Wiley JP, Lun VM, Patel C, Woodhouse LJ, **Reimer RA**, Worobets JT, Herzog W, Stefanyshyn DJ (2016) A three-month randomized controlled trial of reduced knee adduction moments for management of knee osteoarthritis. Submitted to *Osteoarthritis and Cartilage*.
101. Collins KH, Sharif B, Sanmartin C, Chin R, **Reimer RA**, Herzog W, Marshall DA (2016) Association of body mass index (BMI) and percent body fat among BMI-defined non-obese middle aged individuals: insights from a population-based Canadian sample. Submitted to *Can J Public Health*.
102. Reid DT, Schenck LP, Li Y, Vo T, **Reimer RA**, Eksteen B, Beck PL (2016) Milk fat supplementation protects mice against *C. difficile* infection by inhibiting spore germination. Submitted to *Gastroenterology*
103. Leon G, de Klerk E, Ho J, Jackman M, **Reimer RA**, Connors KE, Luca P (2016) Prevalence of Comorbid Conditions Pre-existing and Diagnosed at a Tertiary Care Pediatric Weight Management Clinic. Submitted to *Paediatrics & Child Health*

104. Frehlich LC, Parnell JA, Eller LK, Fung TS, **Reimer RA** (2016) Dietary intakes, nutritional adequacy, and associated body weight in Canadian university students. Submitted to Appl Physiol Nutr Metab
105. Dennison CA, Eslinger AJ, **Reimer RA** (2015) Effects of a maternal pre-pregnancy dietary and pharmacological intervention on maternal fecundity and pregnancy outcome in female Sprague-Dawley rats. Under Revision to Reprod Fertil Development
106. Capozzi LC, McNeely ML, Lau H, **Reimer RA**, Nishimura K, Culos-Reed SN (2016) Physical activity levels in head and neck cancer patients: HPV status and association with health outcomes. Revisions Requested, Head and Neck.
107. Hume MP, **Reimer RA** (2016) Regulating childhood appetite: a role for prebiotic fiber? Submitted to Childhood Obesity
- 108.

### **BOOK CHAPTERS:**

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1. Marc R. Bomhof, **Raylene A. Reimer** (2015) Pro- & prebiotics -The role of gut microbiota in obesity. In: Probiotics and Prebiotics: Current Research and Future Trends, edited by Venema and Paulo do Carmo. Caister Academic Press, Poole, United Kingdom
2. Michael I. McBurney, **Raylene A. Reimer**, Kelly A. Tappenden (1997) Short-chain fatty acids, intestinal adaptation and nutrient utilization. Dietary Fiber in Health and Disease, edited by Kritchevsky and Bonfield. Plenum Press, New York

### **NON-REFEREED PUBLICATIONS / CONFERENCE PROCEEDINGS:**

---

1. **Reimer RA** (2012) Prebiotic fibres and weight management. Window to Science. Edition 1:2012. Review of the 2nd European BENE0 Scientific Symposium.
2. **Reimer RA** (2011) Milk products play a key role in preventing type 2 diabetes. Health Professionals. Physicians Editorial. November Issue.
3. **Reimer RA**, Eller LK (2010) Response to “When the Effect of Dairy ‘Protein’ on Weight Gain Cannot Be Solely Ascribed to Protein”. Obesity 18, 863-864, Letter to the Editor.
4. **Reimer RA** (2008) Milk product intake: implications for weight control and type 2 diabetes. Can Nurse 104(5):20.
5. **Reimer RA** (2004) Tightening the Link Between Diet and Chronic Disease. CheckUp: The Magazine for Optimal Health. Issue 16.
6. **Reimer RA** (2004) Pro- and Prebiotics: Significance and Impact in Clinical Practice. Clinical Nutrition Rounds Vol. 4(3).
7. **Reimer RA** (1997) Regulation of intestinal proglucagon expression and GLP-1 secretion by diet in normal and diabetic states. Doctoral Dissertation, University of Alberta.
8. McBurney MI, Pluske JR, Yoo SS, **Reimer RA** (1994) Evidence that glutamine may be conditionally essential for the early-weaned piglet. Proc VIth Internat Symp Digestive Physiol of the Pig, Bad Doberan, Germany, EAAP Publication No 80:195-198

### **TECHNICAL REPORTS:**

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1. **Reimer RA**, Tunnicliffe JM (2015) Effect of Combined Inulin and Protein Intake on Adiposity and Energy Intake in Overweight and Obese Adults. Final report to General Mills Inc., Minneapolis, MN.
2. **Reimer RA**, Eller LK (2011) Prebiotic oligofructose-enriched inulin as a potential modifier of energy intake and satiety in overweight and obese adults. Final Report to BENE0-Orafti Inc., Tienen, Belgium.
3. **Reimer RA**, Wagner Jones K (2009) The Impact of High Milk Product Intake during Weight Loss on Markers of Insulin Resistance. Final Report to Canadian Foundation for Dietetic Research.

#### **ABSTRACTS (POSTER OR ORAL PRESENTATION AT PROFESSIONAL MEETINGS):**

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**Note:** Underlined names represent trainees under my supervision.

1. Klancic T, Cho NA, **Reimer RA** (2016) Maternal low-dose antibiotic consumption during pregnancy and lactation in rats may impair glucose tolerance and body composition of their offspring. Obesity Week Oct. 31-Nov. 4, 2016, New Orleans, LA.
2. Nettleton JE, Cho NA, Klancic T, Shearer J, Borgland SL, **Reimer RA** (2016) Maternal low-dose aspartame consumption during gestation and lactation may compromise metabolic profile, body composition, and alter central pathways in offspring. Obesity Week Oct. 31-Nov. 4, 2016, New Orleans, LA.
3. Paul HA, Urbanski S, Nicolucci AC, **Reimer RA** (2016) Maternal prebiotic intake elicits lasting effects on offspring gut microbiota and susceptibility to fatty liver. Keystone Symposium Gut Microbiota, Metabolic Disorders and Beyond, Newport, Rhode Island, April 17-21, 2016
4. Toomey CM, Whittacker JL, Nettel-Aguirre A, **Reimer RA**, Woodhouse LJ, Ghali B, Doyle-Baker PK, Emery CA (2016) History of intra-articular knee injury in youth sport is associated with increased adiposity that is modified by physical activity and aerobic fitness 3-10 years later. McCaig Meeting on Musculoskeletal Diseases. Calgary, AB, May 6, 2016.
5. Nettleton JE, Cho NA, Klancic T, Shearer J, Borgland SL, **Reimer RA** (2016) Aspartame may contribute to compromised metabolic profile and body composition in rodent model of maternal obesity and their offspring. Alberta Children's Hospital Research Institute Symposium, Calgary, AB, April 27, 2016
6. Chan C, Shrivastava V, Cruz A, Ochna A, **Reimer R**, Huang C (2016) Prebiotic as an adjunct in type 1 diabetes therapy. Keystone Symposia Conference Adipose Tissue Biology, Banff, AB, February 15-19, 2016.
7. Collins KH, Hart DA, **Reimer RA**, Herzog W (2016) Muscles Display Differential Regulatory Responses and Intramuscular Fat Accumulation with Short Term Exposure to High Fat High Sucrose Diet in Rats. Keystone Symposia Conference Adipose Tissue Biology, Banff, AB, February 15-19, 2016
8. Collins KH, Hart DA, **Reimer RA**, Herzog W (2016) High Fat High Sucrose Diet Results in Early Morphological and Pro-Inflammatory Changes in the Vastus Lateralis Muscle - Implications for Metabolic Osteoarthritis. Orthopaedic Research Society Annual Meeting. Orlando, FL March 5-8, 2016.
9. Toomey CM, Whittacker JL, Nettel-Aguirre A, **Reimer RA**, Woodhouse LJ, Ghali B, Doyle-Baker PK, Emery CA (2016) The association between intra-articular knee injury in youth and

- adiposity in individuals at risk of post-traumatic osteoarthritis. Orthopaedic Research Society Annual Meeting, Orlando, FL, March 5-8, 2016.
10. **Reimer RA**, Willis HJ, Tunnicliffe J, Soto-Vaca A (2015) Effect of inulin and whey protein consumed alone or in combination on appetite and gut microbiota in overweight and obese adults. Obesity Week, Los Angeles, CA, Nov. 2-7, 2015
  11. Paul HA, **Reimer RA** (2015) Maternal prebiotic intake improves metabolism of offspring exposed to maternal obesity and a lifelong obesogenic diet. Obesity Week, Los Angeles, CA, Nov. 2-7, 2015
  12. Nettleton JE, Cho NA, Klancic T, Shearer J, Borgland SL, **Reimer RA** (2015) Aspartame contributes to compromised metabolic profile and body composition in rodent model of maternal obesity and their offspring. Obesity Week, Los Angeles, CA, Nov. 2-7, 2015
  13. Klancic T, Parnell JA, **Reimer RA** (2015) Oligofructose supplementation is associated with decreased lipopolysaccharide and plasminogen activator inhibitor-1 in overweight and obese adults. Obesity Week, Los Angeles, CA, Nov. 2-7, 2015
  14. Cho NA, Nettleton JA, Klancic T, **Reimer RA** (2015) Impact of aspartame and stevia consumption by obese female rats during pregnancy on offspring obesity risk. ACHRI Summer Student Research Day, Calgary, AB, August 20, 2015.
  15. Collins KH, Hart DA, **Reimer RA**, Seerattan RA, Herzog W (2015) Short-term Exposure to a High Fat High Sucrose Diet Results in Rapid Intramuscular Fat Deposition and an Altered Inflammatory Environment. Obesity Week, Los Angeles, CA, Nov. 2-7, 2015.
  16. Collins KH, Paul HA, **Reimer RA**, Seerattan RA, Hart DA, Herzog W (2015) Relationship between the gut microbiota, lipopolysaccharide, inflammation and metabolic osteoarthritis development: studies in a rat model. Osteoarthritis Research Society International World Congress, Seattle, WA, April 30-May 3, 2015. Osteoarthritis and Cartilage 2015;23(Suppl 2):A258-259.
  17. Bomhof MR, Paul HA, Eller LK, **Reimer RA** (2015) Parallel Improvement in Body Weight, Glycemia, and Intestinal Permeability but not Body Fat with Prebiotic- and Antibiotic-Induced Gut Microbiota Modification. Canadian Obesity Summit, Toronto, ON, April 28 – May 2, 2015. Cdn J Diabetes 39(Suppl 1):S38.
  18. Paul HA, **Reimer RA** (2015) Metabolite profiling in diet-induced maternally obese rats identifies putative metabolic pathways involved in developmental programming of obesity. Canadian Obesity Summit, Toronto, ON, April 28 – May 2, 2015. **Winner of Maternal Infant Child & Youth Research Network Trainee Award**. Cdn J Diabetes 39(Suppl 1):S22.
  19. Nicolucci AC, Hume MP, **Reimer RA** (2015) Effect of prebiotic fiber intake on adiposity and inflammation in overweight and obese children: assessing the role of the gut microbiota. Canadian Obesity Summit, Toronto, ON, April 28 – May 2, 2015. Cdn J Diabetes 39(Suppl 1):S43.
  20. Hume MP, Nicolucci AC, **Reimer RA** (2015) Can Prebiotic Fibre Intake Improve Appetite Regulation in Overweight and Obese Children? Canadian Obesity Summit, Toronto, ON, April 28 – May 2, 2015. Cdn J Diabetes 39(Suppl 1):S357.
  21. Nicolucci AC, Hume MP, **Reimer RA** (2015) Body fat reduction in overweight and obese children consuming prebiotic fiber over 16 weeks. Alberta Children's Hospital Research Institute Symposium, April 15, 2015.
  22. Hume MP, Nicolucci AC, **Reimer RA** (2015) Prebiotic fiber consumption decreases energy intake in overweight and obese children. Experimental Biology, Boston, MA, March 28 – April 1, 2015. FASEB J 29(597.3). **American Society for Nutrition 2015 Graduate Student**



***Research Award Oral Presentation Finalist; and Emerging Leaders in Nutrition Science Poster Competition Finalist; and selected for News Release.***

23. Nicolucci AC, Hume MP, **Reimer RA** (2015) Effect of prebiotic fiber-induced changes in gut microbiota on adiposity in obese and overweight children. Experimental Biology, Boston, MA, March 28-April 1, 2015. FASEB J 29(276.6)
24. Collins KH, Hart DA, **Reimer RA**, Herzog W (2015) Diet Induced Obesity Leads to Increased Expression of Adipokines by Intraarticular tissues and Osteoarthritis-like changes in the Rat Knee. Orthopaedic Research Society Annual Meeting, Las Vegas, NV, March 28-31, 2015.
25. Paul HA, Bomhof MR, **Reimer RA** (2015) Supplementing diet-induced maternally obese rats with prebiotic fibre impacts maternal and offspring adiposity and gut microbial profiles. Keystone Symposium, Keystone, CO, March 1-6, 2015.
26. Bomhof MR, Paul HA, Eller LK, **Reimer RA** (2015) Decreased adiposity with prebiotics differentially affected by antibiotics in obese rats. Keystone Symposium, Keystone, CO, March 1-6, 2015. *Selected for special e-poster session.*
27. Nicolucci AC, Hume MP, **Reimer RA** (2015) Therapeutic potential of prebiotic fiber and gut microbiota modulation in reducing adiposity in obese and overweight children. Keystone Symposium, Keystone, CO, March 1-6, 2015.
28. Palmnas MSA, Capozzi LC, Lau H, **Reimer RA**, McNeely M, Giese-Davis J, Culos-Reed SN, Vogel HJ (2015) Multi-modal metabolomics analysis of cachexia in head and neck cancer patients. Southern Alberta Cancer Research Institute Research Day, Calgary, AB, January 30, 2015.
29. Bomhof MR, Paul HA, Eller LK, **Reimer RA** (2014) Antibiotics negate the beneficial effects of oligofructose on intestinal permeability and insulin sensitivity in obese rats. Obesity Week, Boston, MA, Nov. 2-7, 2014.
30. Paul HA, **Reimer RA** (2014) Maternal prebiotic fibre supplementation alters maternal and offspring gut microbiota and maternal metabolomic profiles in obese rats. Obesity Week, Boston, MA, Nov. 2-7, 2014.
31. Parnell JA, Lambert JE, Han J, Sturzenegger T, **Reimer RA**. (2014) Supplementing the diet with pea fiber promotes weight loss through reduced energy intake and alters gut hormones in overweight/obese adults: a double-blind, randomized control trial. Obesity Week, Boston, MA, Nov. 2-7, 2014.
32. Lambert JE, Parnell JA, Han J, Sturzenegger T, **Reimer RA**. (2014) Consuming biscuits containing yellow pea fibre over 12 weeks leads to reduction in voluntary energy intake and body fat as well as modification of gut bacterial profile in overweight/obese adults. Canadian Nutrition Society, St. John's, NL, June 5-7, 2014.
33. Collins KH, **Reimer RA**, Herzog W. (2014) Obese Animals Demonstrate Disparate Functional Compensation Strategies Compared to Lean after ACL-X. World Congress of Biomechanics, Boston, MA, July 6-11, 2014.
34. Collins KH, **Reimer RA**, Herzog W. (2014) Diet Induced Obesity Leads To Disparate Cytokine And Adipokine Concentrations In Synovial Fluid In Rats. ACSM Annual Meeting and World Congress on the Role of Inflammation in Exercise, Health and Disease, Orlando, FL, May 27-31, 2014.
35. Paul HA, Bomhof MR, **Reimer RA**. (2014) Supplementing a maternal high-fat/sucrose diet with the prebiotic fibre oligofructose during pregnancy and lactation reduces offspring body fat in Sprague-Dawley rats. ACHRI Symposium, Calgary, AB, April 9, 2014.

36. McMaster FP, Borgland S, Langevin LM, Jaworska N, Sembo M, Lebel RM, Ho J, Elliott C, **Reimer RA** (2014) Hippocampal glutamate and glutathione in pediatric obesity. Society of Biological Psychiatry Meeting, New York, NY, May 8-10, 2014. *Biological Psychiatry* 75(9):361S.
37. KH Collins, R Chin, C SanMartin, **RA Reimer**, W Herzog, DA Marshall (2014) Body Fat is an Independent Risk Factor for Osteoarthritis in the Statistics Canada Canadian Health Measures Survey Population. Osteoarthritis Research Society International, Paris, France, April 24-27, 2014.
38. Collins KH, **Reimer RA**, Herzog W (2014) An Obesity Induction Rat Model to Study The Metabolic Subtype of Osteoarthritis in Rats. Orthopaedic Research Society, New Orleans, Mar. 15-18, 2014.
39. Saha DC, **Reimer RA** (2013) Metabolic and gut health impacts of early nutritional intake of fiber or protein in response to high energy dietary challenge in later life. The Obesity Society Annual Scientific Meeting, Atlanta, GA, Nov. 11-16, 2013.
40. Collins, KH, **Reimer RA** and Herzog W (2013) Acute Gait Changes in Rats After Diet Induced Obesity and Anterior Cruciate Ligament Transection. International Society of Biomechanics, Natal, Brazil, Aug. 4-9, 2013.
41. Collins, KH, **Reimer RA**, Herzog W, Marshall DA (2013) Translating Basic Science Subtype Classification of Metabolic Osteoarthritis to Health Services Delivery Researchers using Canadian Health Measures Survey Statistics Canada Data. Western Canada Wait List Project Meeting, Winnipeg, MB, Canada; June 21-22, 2013.
42. Paul HA, **Reimer RA** Offspring body fat is reduced via maternal supplementation of a high fat, sucrose diet with the prebiotic fiber oligofructose in Sprague-Dawley rats. Biomedical Basis of Human Performance Across the Lifespan International Workshop and Symposium, Calgary, AB, June 20, 2013. **Best Trainee Presentation Award**
43. Dennison CA, Eslinger AJ, **Reimer RA** (2013) Can a dietary and pharmacological pre-pregnancy intervention improve the metabolic health of male offspring of obese Sprague-Dawley rats? Canadian Obesity Summit, Vancouver, BC, May 1-4, 2013. *Canadian Journal of Diabetes*; Vol 37 (2013); Supplement 2; Page S227.
44. Bomhof MR, Eller LK, Paul HA, **Reimer RA** (2013) Prebiotics can improve adiposity and glycemia independent of gut microbiota in diet-induced obese rats. Canadian Obesity Summit, Vancouver, BC, May 1-4, 2013. *Canadian Journal of Diabetes*; Vol 37 (2013); Supplement 2; Page S226.
45. Paul HA, Bomhof MR, **Reimer RA** The addition of the prebiotic fiber oligofructose to a maternal high fat, sucrose diet during gestation and lactation reduces offspring body fat in diet-induced obese Sprague-Dawley rats. Canadian Obesity Summit, Vancouver, BC, May 1-4, 2013. *Canadian Journal of Diabetes*; Vol 37 (2013); Supplement 2; Page S226.
46. Paul HA, Bomhof MR, **Reimer RA** Offspring Body Fat is Reduced through the Addition of the Prebiotic fiber Oligofructose to a Maternal High Fat, Sucrose Diet during Pregnancy and Lactation in Sprague-Dawley Rats. Biochemistry and Molecular Biology Advance, Banff, AB, April 27-28, 2013. **Best Poster Winner**
47. Saha DC, **Reimer RA** (2013) Intake of differential diets high in protein or fiber during early stages influence intestinal microbiome and hepatic metabolic health in response to a high energy challenge at maturity. Food Matters Conference, Edmonton, AB, April 26, 2013. **Poster contest winner**

48. **Reimer RA, Eslinger AJ** (2013) Using a diet and drug combination treatment prior to pregnancy to improve maternal health in rats. Experimental Biology, Boston, MA, April 20-24, 2013. FASEB J April 9, 2013 27:48.7
49. **Bomhof MR, Paul HA, Reimer RA** (2013) Determining the gut-microbiota independent effects of prebiotic fiber in diet-induced obese rats. Experimental Biology, Boston, MA, April 20-24, 2013. FASEB J April 9, 2013 27:1056.6
50. **Hallam MC, Reimer RA** (2013) Prebiotic fiber diet does not improve offspring 'leaky gut' from maternal low protein diet. Experimental Biology, Boston, MA, April 20-24, 2013. FASEB J April 9, 2013 27:1058.2
51. **Dennison CA, Eslinger JA, Reimer RA** (2013) Fetal programming of metabolic health through a combined dietary and pharmacological pre-pregnancy intervention in rats. Experimental Biology, Boston, MA, April 20-24, 2013. FASEB J April 9, 2013 27:111.6  
*Poster competition winner for Experimental Animal Nutrition Research Interest Section.*
52. **Paul HA, Bomhof MR, Reimer RA** (2013) Adding prebiotic fiber to a maternal high fat, sucrose diet during pregnancy and lactation reduces offspring body fat in Sprague-Dawley rats. Experimental Biology, Boston, MA, April 20-24, 2013. FASEB J April 9, 2013 27:111.7
53. Cowan TE, Palmnas M, Ardell K, Yang J, **Reimer R**, Vogel H. (2013) Chronic coffee consumption alters gut microbiome: potential mechanism to explain the protective effects of coffee on type 2 diabetes? Experimental Biology, Boston, MA, April 20-24, 2013. FASEB J April 9, 2013 27:951.1
54. Cowan TE, Palmnas M, **Reimer R**, Ardell K, Yang JJ, Vogel H, Shearer J. (2013) Artificial sweetener consumption differentially affects the gut microbiota-host metabolic interactions. Experimental Biology, Boston, MA, April 20-24, 2013. FASEB J April 9, 2013 27:224.7
55. Palmnäs MSA, **Reimer RA**, Shearer J, Vogel HJ (2012) Coffee consumption and reduced colon cancer risk: A metabolomics investigation into a potential mechanism. Alberta Cancer Conference, Nov. 1-2, 2012.
56. **Eslinger AJ, Reimer RA** (2012) Effect of combined sitagliptin and oligofructose therapy on glucagon-like peptide-1 secretion and gut microbiota in pre-pregnant diet-induced obese rats. Leaders in Medicine Symposium, Calgary, AB, November 2, 2012.
57. Collins KH, **Reimer RA**, Herzog W (2012) Does metabolically-induced obesity affect the severity of Knee Osteoarthritis? Alberta Biomedical Engineering Conference, Banff, AB, Canada; October 19-21, 2012.
58. Capozzi L, Lau H, **Reimer RA**, McNeely M, Giese-Davis J, Culos-Reed SN. (2012) The Joe's ENHANCE Team Study: Exercise, Nutrition and Education in Head/Neck Cancer. Southern Alberta Cancer Research Institute Research Day, Calgary, AB, September 28, 2012.
59. **Bomhof MR, Reid DT, Saha DC, Reimer RA** (2012) Prebiotic fiber and Bifidobacterium animalis lactis BB-12 interact to improve glucose tolerance in obese rats. Canadian Obesity Student Meeting, Edmonton, AB, June 20-23, 2012.
60. **Dennison CA, Eslinger AJ, Reimer RA** (2012) Alteration of offspring birth weight and weaning weight through maternal pre-pregnancy weight loss using a combined dietary and pharmacological therapy. Canadian Obesity Student Meeting, Edmonton, AB, June 20-23, 2012.

61. Eslinger AJ, **Reimer RA** (2012) Effect of combined sitagliptin and oligofructose therapy on glucagon-like peptide-1 secretion and gut microbiota in pre-pregnant diet-induced obese rats. Canadian Nutrition Society Annual Meeting, Vancouver, BC, May 23-26, 2012
62. Dennison CA, **Reimer RA** (2012) Effects of pre-pregnancy weight loss with a combined dietary and pharmacological therapy on maternal fecundity and pregnancy. Canadian Nutrition Society Annual Meeting, Vancouver, BC, May 23-26, 2012
63. Bomhof MR, Reid DT, Saha DC, **Reimer RA** (2012) Combined role of prebiotics and probiotics in the management of obesity in rats. Canadian Nutrition Society Annual Meeting, Vancouver, BC, May 23-26, 2012
64. Hallam MC, **Reimer RA** (2012) Pre-natal prebiotic fiber exposure and responsiveness to the same diet after a high fat high sucrose dietary challenge. Canadian Nutrition Society Annual Meeting, Vancouver, BC, May 23-26, 2012
65. Kacinik V, Lyon M, Purnama M, **Reimer RA**, Gahler R, Green TJ, Wood S (2012) Effect of PGX®, a novel functional fibre supplement, on subjective ratings of appetite in overweight and obese women consuming a three-day structured, low calorie diet. Canadian Nutrition Society Annual Meeting, Vancouver, BC, May 23-26, 2012
66. Dennison C, Eslinger A, **Reimer RA** (2012) Modification of offspring birth weight and pregnancy outcomes through a combined dietary and pharmacological therapy prior to conception. CIHR-INMD Meet and Greet. University Calgary, May 14, 2012.
67. Eslinger, AJ, **Reimer RA** (2012) Effect of combined sitagliptin and oligofructose therapy on glucagon-like peptide-1 secretion and gut microbiota in pre-pregnant diet-induced obese rats. CIHR-INMD Meet and Greet, Calgary, AB, May 14, 2012.
68. Eslinger, AJ, **Reimer RA** (2012) Effect of sitagliptin and oligofructose therapy on gut hormone secretion and gut microbiota in pre-pregnant diet-induced obese rats. Alberta Children's Hospital Research Institute 2012 Research Symposium, Calgary, AB, April 11-12, 2012.
69. Dennison CA, Eslinger AJ, **Reimer RA** (2012) Modification of offspring birth weight and pregnancy outcomes through a combined dietary and pharmacological therapy prior to conception. Alberta Children's Hospital Research Institute 2012 Research Symposium, Calgary, AB, April 11-12, 2012.
70. Eslinger, AJ, **Reimer RA** (2011) Comparison of Gut Microbiota in Rats Fed Pulse-Derived Ingredients Versus the Prebiotic Fiber Oligofructose. Leaders in Medicine Research Symposium, Calgary, AB, November 4, 2011.
71. **Reimer RA**, Reid DT (2011) Effect of combined DPP-IV inhibitor and oligofructose therapy on gut satiety hormone secretion and body fat in diet-induced obese rats. The Obesity Society Annual Scientific Meeting, Orlando, FL, Oct. 1-5, 2011.
72. Eller LK, Shearer J, **Reimer RA** (2011) Differences in Hepatic Expression of Genes Associated with Insulin Signaling, PPAR, and mTOR Pathways in Obese Rats Fed Skim Milk, Casein or Leucine-Enriched Diets. The Obesity Society Annual Scientific Meeting, Orlando, FL, Oct. 1-5, 2011.
73. Eslinger AJ, **Reimer RA** (2011) Comparison of Gut Microbiota in Rats Fed Pulse-Derived Ingredients Versus the Prebiotic Fiber Oligofructose. The Obesity Society Annual Scientific Meeting, Orlando, FL, Oct. 1-5, 2011.
74. Hallam MC, **Reimer RA** (2011) Re-Matching Offspring to Maternal High Protein or High Prebiotic Fiber Diet Improves Insulin Sensitivity. The Obesity Society Annual Scientific Meeting, Orlando, FL, Oct. 1-5, 2011.

75. Saha DC, **Reimer RA** (2011) Gut microbiota changes in rats reared on control, high protein or high prebiotic fiber diets and challenged with a high fat/sucrose diet in adulthood. The Obesity Society Annual Scientific Meeting, Orlando, FL, Oct. 1-5, 2011.
76. Reid DT, **Reimer RA** (2011) Prebiotic fiber supplementation following oversuckling differentially alters gut microbiota compared to rats suckled in normal size litters. The Obesity Society Annual Scientific Meeting, Orlando, FL, Oct. 1-5, 2011.
77. Hallam MC, **Reimer RA** (2011) Re-matching Adult Offspring to Maternal Diet High in Prebiotic Fiber Impacts Gut Hormone Response. Canadian Student Health Research Forum, Winnipeg, June 7-9, 2011.
78. **Reimer RA**, Pyra KA, Saha DC (2011) Combining metformin with the prebiotic fiber oligofructose improves metabolic outcomes in diet-induced obese rats. Canadian Nutrition Society Annual Meeting, Guelph, ON, June 2-4, 2011.
79. Hallam MC, **Reimer RA** (2011) Consumption of High Prebiotic Fiber or High Protein Diet during Pregnancy Alters Gut Microbiota in the Dams and their Offspring. Canadian Journal of Diabetes, 35 (2): 205. Canadian Obesity Network National Obesity Summit, Montreal, QC, Apr. 28-May1, 2011
80. Parnell JA, **Reimer RA** (2011) Prebiotic Modulation of Gut Microflora for the Treatment of Obesity. Canadian Obesity Network National Obesity Summit, Montreal, QC, Apr. 28-May1, 2011.
81. Eslinger AJ, Duffy OA, Reid DT, Eller LK, **Reimer RA** (2011) Pulse-derived ingredients differentially modulate microbiota in diet-induced obese rats: a comparison to oligofructose. Alberta Children's Hospital Research Institute 2011 Research Symposium, Calgary, AB, April 18-19, 2011.
82. Saha DC, **Reimer RA**. (2011) Rematching Wistar rats to a high prebiotic fiber diet consumed postnatal reduces body fat accumulation following a high fat, sucrose challenge in adulthood and is reflected in healthy gut microbial profiles. Alberta Children's Hospital Research Institute 2011 Research Symposium, Calgary, AB, April 18-19, 2011.
83. Dennison C, **Reimer RA** (2010) Gut Microbiota Alteration in Obesity and Insulin Resistance Management. Undergraduate Research Symposium, University of Calgary, Nov. 25, 2010.
84. Hallam MC, **Reimer RA** (2010) Pre- and Neo-Natal Exposure to Maternal High Protein and Prebiotic Fiber Diets Impact Offspring Growth and Glucose and Lipid Metabolism in a Sex Dependent Manner. Obesity 18:S73. The Obesity Society Annual Scientific Meeting, San Diego, Oct. 8-12, 2010.
85. Reid DT, **Reimer RA** (2010) Supplementing a high-fat/sucrose diet with prebiotic fiber (oligofructose) differentially affects glucose metabolism and appetite hormones in rats raised in small versus large litters. Obesity 18:S73. The Obesity Society Annual Scientific Meeting, San Diego, Oct. 8-12, 2010.
86. **Reimer RA**, Eslinger A, Reid DT, Eller LK (2010) Effect of dietary fiber derived from pulses or the prebiotic oligofructose on satiety hormone secretion and lipid metabolism in diet-induced obese rats. Obesity 18:S208. The Obesity Society Annual Scientific Meeting, San Diego, Oct. 8-12, 2010.
87. Eslinger AJ, Reid DT, Eller LK, **Reimer RA** (2010) Pulse-derived ingredients differentially modulate body fat and glycemic control in diet-induced obese rats: a comparison to oligofructose. Canadian Obesity Student Meeting, Ottawa, ON, June 9-12, 2010.

88. Reid DT, **Reimer RA** (2010) Use of oligofructose to regulate gut satiety hormones and prevent obesity in young rats. International Conference on Developmental Origins of Health and Disease, May 6-8, 2010, Munich, Germany.
89. Hallam MC, **Reimer RA** (2010) Sex Differences in Offspring Body Weight and Food Intake after Prebiotic Fiber or High Protein Maternal Diet. International Conference on Developmental Origins of Health and Disease, May 6-8, 2010, Munich, Germany.
90. Reid DT, **Reimer RA** (2010) Consumption of the prebiotic fiber, oligofructose, following suckling is associated with a leaner phenotype in rats raised in large versus small litters. Alberta Children's Hospital Research Institute for Maternal and Child Health Trainee Research Day, Calgary, March 8, 2010.
91. Pyra KA, **Reimer RA** (2009) Prebiotic fiber supplementation in combination with metformin reduces food intake, regulates blood glucose and improves total energy balance in obese rats compared to either therapy alone. North American Association for the Study of Obesity, Washington, DC, October 24-28, 2009. Obesity 17 (Suppl):194-P.
92. **Reimer RA**, Maurer AD, Lau DCW, Auer RN (2009) Despite a new lower body weight, hunger does not diminish after long-term dietary restriction in rats. Canadian Society for Clinical Nutrition/Canadian Society for Nutritional Sciences Annual Scientific Meeting, Quebec City, QC, May 31-June 2, 2009.
93. Lorincz C, **Reimer RA**, Zernicke RF (2009) High-frequency loading with rest insertion counterbalances high-fat-sucrose diet effects on bone properties. International Society of Biomechanics, Cape Town, South Africa, July 5-9, 2009.
94. Eller LK, Shearer J, **Reimer RA**. (2009) Leucine not calcium improves insulin sensitivity in obese rats. Keystone Symposia on Type 2 Diabetes and Insulin Resistance, Banff, AB, January 20-25, 2009.
95. **Reimer RA**, Hallam MC, Maurer AD, Eller LK. (2008) Mismatched early and adult dietary environments influence metabolomic profile, satiety hormone response and body fat mass in Wistar rats. North American Association for the Study of Obesity, Phoenix, AZ, October 3-7, 2008. Obesity 16 (Suppl):200-P.
96. Hallam MC, Eller LK, **Reimer RA**. (2008) PYY and proglucagon mRNA are upregulated by high fiber diet in a rat model of mismatched and then re-matched nutritional environment. North American Association for the Study of Obesity, Phoenix, AZ, October 3-7, 2008. Obesity 16 (Suppl):136-OR.
97. Wagner Jones K, Eller LK, **Reimer RA**. (2008) Effects of a high milk product/calcium diet on body composition and glucose and lipid control in overweight adults. North American Association for the Study of Obesity, Phoenix, AZ, October 3-7, 2008. Obesity 16 (Suppl):865P.
98. Eller LK, Shearer J, **Reimer RA**. (2008) Insulin sensitivity is improved with leucine supplementation in diet induced obese rats. North American Association for the Study of Obesity, Phoenix, AZ, October 3-7, 2008. Obesity 16 (Suppl):207-P.
99. Tunncliffe J, Eller LK, Hallam MC, Su L, **Reimer RA**, Shearer J. (2008) Chlorogenic Acid Reduces Intestinal Glucose Absorption and Alters Gut Peptide Secretion. North American Association for the Study of Obesity, Phoenix, AZ, October 3-7, 2008. Obesity 16 (Suppl):202P.
100. Tunncliffe J, Eller LK, Su L, **Reimer RA**, Shearer J. (2008) Chlorogenic Acid Does Not Directly Stimulate GLP-1 Secretion in Human Colon Cells. North American Association for the Study of Obesity, Phoenix, AZ, October 3-7, 2008. Obesity 16 (Suppl):201-P.

101. Lorincz C, **Reimer RA**, Zernicke RF. (2008) Dietary effects on bone mechanical properties and molecular markers. North American Congress on Biomechanics, Ann Arbor, Michigan, August 5-9, 2008.
102. Lun V, Erdman KA, **Reimer RA**. (2008) Evaluation of Nutritional Intake in Canadian High Performance Athletes. Clin J Sport Med 18(2):190. Canadian Academy of Sport Medicine, Las Vegas, NV, March 25-29, 2008.
103. Maurer AD, **Reimer RA**. (2008) Weaning Diet in Rats Predicts Response to a High Fat/Sugar Diet in Adulthood. 1st Alberta CON-SNP Research Day, Calgary, AB, March 20, 2008
104. Maurer AD, **Reimer RA**. (2008) Negative predictive adaptive response of a high protein weaning diet in rats exposed to a high fat/sugar diet in adulthood. Experimental Biology '08, San Diego, CA, April 5-9, 2008. FASEB J 22:A5778.
105. Parnell JA, **Reimer RA**. (2007) Oligofructose Supplementation Promotes Weight Loss in Overweight Adults. North American Association for the Study of Obesity, New Orleans, LA, Oct. 20-24, 2007. Obesity 15 (Suppl):A59.
106. Chambers A, Eller LK, Vemuri K, Wood J, **Reimer RA**, Makriyannis A, Sharkey K. (2007) Anti-obesity effect of chronic treatment with a neutral CB1 receptor antagonist in rat. North American Association for the Study of Obesity, New Orleans, LA, Oct. 20-24, 2007. Obesity 15 (Suppl):A119.
107. Eller LK, **Reimer RA**. (2007) Differential effects of various proteins supplemented with calcium on the promotion of weight loss in calorie-restricted Sprague-Dawley Diet-Induced Obese rats. North American Association for the Study of Obesity, New Orleans, LA, Oct. 20-24, 2007. Obesity 15 (Suppl):A155.
108. Fried A, Manske SL, Lorincz C, Eller LK, **Reimer RA**, Zernicke RF. (2007) Dairy protein and calcium effects on bone structure and strength. Journal of Biomechanics 40 (Suppl 2):S373. International Society of Biomechanics, Taipei, Taiwan, July 1-5, 2007.
109. Maurer AD, **Reimer RA**. (2007) Early diets high in fiber or protein modulate GLP-1 secretion and intestinal growth in rats. Experimental Biology '07, Washington, DC, April 28-May 3, 2007. FASEB J 21:A3523.
110. **Reimer RA**, Parnell JA (2006) Prebiotic Fiber Supplementation Lowers Serum Lipids in an Obese Rat Model. North American Association for the Study of Obesity, Boston, MA, Oct. 20-24, 2006. Obesity 14 (Suppl):A64.
111. Maurer AD, **Reimer RA**. (2006) GLP-1 and leptin secretion are modulated by an early postnatal diet high in fiber. Early Human Development 82(8):552 (H-16). Dietary Origins of Health and Disease, Utrecht, Netherlands, Sept. 13-16, 2006.
112. Parnell JA, **Reimer RA** (2006) Effects of Prebiotic Fiber Supplementation on Body Weight and Satiety Hormones in JCR:La-Corpulent Rats. North American Association for the Study of Obesity, Boston, MA, Oct. 20-24, 2006. Obesity 14 (Suppl): A60.
113. Maurer A, **Reimer RA** (2006) An early diet high in fiber may provide protective effects. Experimental Biology '06, San Francisco, CA, April 1-5, 2006. FASEB J 20:A1316.
114. Parnell J, **Reimer RA** (2006) Prebiotic fiber improves satiety hormone and cholesterol profiles in an obese rat model. Experimental Biology '06, San Francisco, CA, April 1-5, 2006. FASEB J 20:A1314.
115. Eller LK, Ainslie P, Poulin M, **Reimer RA** (2006) The effect of a high fat and high carbohydrate meal on satiety hormone response and subjective hunger in humans. Experimental Biology '06, San Francisco, CA, April 1-5, 2006. FASEB J 20:A1002.

116. Eller LK, **Reimer RA** (2006) The effect of dairy protein and calcium on the prevention of weight gain in Sprague-Dawley Diet Induced Obese (DIO) rats. Experimental Biology '06, San Francisco, CA, April 1-5, 2006. FASEB J 20:A992. **Vitamin/Mineral RIS Poster Competition**
117. Chen Q, **Reimer RA** (2006) Dairy proteins and branched chain amino acids stimulate GLP-1 release and downregulate genes involved in fatty acid and cholesterol metabolism in the human NCI-H716 cell line. Experimental Biology '06, San Francisco, CA, April 1-5, 2006. FASEB Journal 20:A612.
118. Bandali F, Maloff B, Watson-Jarvis K, Davachi S, Reisch H, Caughey K, **Reimer RA**, Lau DCW (2005) A comprehensive strategy for the prevention of childhood obesity: The Calgary Initiative. Canadian Diabetes Association Scientific Meeting, Edmonton, AB Oct. 19-22, 2005.
119. Parnell J, **Reimer RA** (2005) Differential Expression and Secretion of Satiety Hormones at the Onset and in Well-Established Obesity in Rats. Experimental Biology '05, San Diego, CA, April 2-6, 2005. FASEB J 19:A2959
120. Maurer A, **Reimer RA** (2005) Effect of Caloric Restriction on Intestinal Adaptation and Satiety Hormone Production in Rats. FASEB J 19:A5440 .
121. **Reimer RA** (2004) Effect of supplementing a high protein diet with fiber in the genetically obese JCR:La-corpulent rat. *Obes Res* 12 (Suppl):A114. North American Association for the Study of Obesity Annual Scientific Meeting, Las Vegas, NV. November 14-18, 2004.
122. Yan H, Dhillon B, Liu CSC, Mitchell JCA, **Reimer RA**, Russell, JC, Lau DCW (2004) Increased expression of proinflammatory cytokines and chemokines in adipose tissue of obese JCR:La-cp rats. *Obes Res* 12 (Suppl):A173. North American Association for the Study of Obesity Annual Scientific Meeting, Las Vegas, NV. November 14-18, 2004.
123. **Reimer RA** (2004) Novel barley extracts regulate expression of genes involved in fatty acid and cholesterol metabolism. *Canadian Journal of Diabetes* 28:A169. Canadian Diabetes Association Scientific Meeting, Quebec City October 27-30, 2004.
124. Yan H, Wang Y, Dhillon B, Auer R, **Reimer R**, Lau DCW (2004) Calorie restriction decreased c-reactive protein expression in white adipose tissue in rats. *Canadian Journal of Diabetes* 28:A141. Canadian Diabetes Association Scientific Meeting, Quebec City October 27-30, 2004.
125. Parnell JA, **Reimer RA**. Characterization of the Genetically Obese JCR:La-corpulent Rat Gut. Biochemistry and Molecular Biology Retreat, Banff. October 26-27, 2004.
126. LaMothe J, **Reimer RA**, Zernicke RF (2004) Genetic-related obesity does not adversely affect bone mechanical and morphometrical properties. Canadian Soc for Biomechanics, Halifax, August 4-7, 2004.
127. **Reimer RA**. (2003) High fiber and protein diets improve blood lipids in the JCR:La-corpulent rat. *Canadian Journal of Diabetes* 27:A134. Canadian Diabetes Association Scientific Meeting, Ottawa, ON. October 15-18, 2003.
128. **Reimer RA**, Blakely RM (2003) Effect of diets high in protein and fiber on obesity in the JCR:La corpulent rat. FASEB J 17:A679.2.
129. Field C, Schley T, Stillie R, **Reimer R**. (2002) The effect of prebiotics and probiotics on the immune system. (2002) Australian Parenteral and Enteral Nutrition AuSPEN 28th Scientific Meeting. Adelaide, South Australia, Oct 24-26, 2002.



130. **Reimer RA.** Role of MAP kinases in meat hydrolysate induced GLP-1 secretion. (2002) Canadian Diabetes Journal 26:AA186. Canadian Diabetes Association Scientific Conference. Vancouver, BC, October 2-5, 2002
131. **Reimer RA, Lee K** (2002) Survey of transcriptional changes with meat hydrolysate in NCI-H716 enteroendocrine cells. FASEB J 16:C163
132. **Reimer RA, Darimont C, Nicolas-Métral V, Gremlich S, Rüegg UT, Macé K** (2001) Dietary regulators of GLP-1 secretion in a human enteroendocrine cell line. Canadian Journal of Diabetes Care 25:A124. Canadian Diabetes Association Scientific Conference. Edmonton, AB, October 17-20, 2001
133. **Reimer RA, Darimont C, Nicolas-Métral V, Gremlich S, Rüegg UT, Macé** (2000) A human cellular model for studying the regulation of glucagon-like peptide-1. The North American Association for the Study of Obesity. Long Beach, CA, October 29-November 2, 2000
134. **Reimer RA, Pfeifer A, Macé KA** (1999) Effect of SCFA on lipogenesis in a new human hepatocyte cell line. FASEB Journal 13:A926
135. **McBurney MI, Reimer RA, Thomson ABR, Rajotte RV, Basu TK, Ooraikul B** (1998) Rhubarb fiber and food intake modulate proglucagon gene expression and intestinal glucose uptake in diabetic rats. International Congress of Nutrition
136. **Reimer RA, McBurney MI, Baracos VE, Thomson ABR, Basu T, Ooraikul B** (1997) Modulation of glucose homeostasis by rhubarb fiber and GLP-1. Federation of American Societies for Experimental Biology Journal 11:A3533
137. **McBurney MI, Reimer RA, Thomson ABR, Basu T, Ooraikul B** (1997) Rhubarb fiber modulates proglucagon gene expression and intestinal glucose uptake in rats. Federation of American Societies for Experimental Biology Journal 11:A3531
138. **Reimer RA, Baracos VE, McBurney MI** (1996) Effect of dietary fiber and GLP-1 on uptake of glucose in skeletal muscle. Federation of American Societies for Experimental Biology Journal 10:A3011
139. **Reimer RA, Baracos VE, McBurney MI.** (1996) GLP-1 Inhibits glucose uptake in skeletal muscle from rats in vitro. Canadian Federation of Biological Societies 39:A001
140. **Reimer RA, McBurney MI.** (1996) Incretin expression and secretion is altered with dietary fiber in rats. Canadian Association of Gastroenterology Meeting, Cdn J Gastroenterology 10(SupplA):F21
141. **Reimer RA, McBurney MI** (1995) GLP-1(7-37) and dietary fiber: important mediators in the enteroinsular axis and in glucose homeostasis. Canadian Federation of Biological Societies 38:A94
142. **Reimer RA, McBurney MI** (1995) Dietary fiber modulates proglucagon-derived peptide gene expression and insulin secretion in rats. Federation of American Societies for Experimental Biology Journal 9:A4220 AIN/Procter & Gamble Graduate Student Award.
143. **McBurney MI, Pluske JR, Yoo SS, Reimer RA** (1994) Evidence that glutamine may be conditionally essential for the early-weaned piglet. Proc VIth Internat Symp Digestive Physiol of the Pig, Bad Doberan, Germany, EAAP Publication No 80:195-198
144. **Reimer RA, McBurney MI** (1994) Dietary fiber intake regulates intestinal glucagon gene expression in rats. Canadian Federation of Biological Societies 37:A177 Mary Ecclestone Graduate Student Award.

## **PATENTS:**

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1. “Use of a Milk Protein in the Treatment of Diabetes”  
European Patent EP1235585 A2  
Principal Inventor: Raylene A. Reimer  
Joint Inventors: K. Macé, C. Darimont, J.-R. Neeser  
Applicant: Societé des Produits Nestlé
2. “Treatment of Diabetes with Milk-Protein Hydrolysate”  
US2003004095 A1  
Principal Inventor: Raylene A. Reimer  
Joint Inventors: K. Macé, C. Darimont, J.-R. Neeser  
Applicant: Societé des Produits Nestlé
3. “Treatment of Diabetes with Milk-Protein Hydrolysate”  
US7585618 18B2  
Principal Inventor: Raylene A. Reimer  
Joint Inventors: K. Macé, C. Darimont, J.-R. Neeser  
Applicant: Societé des Produits Nestlé

#### **SCIENTIFIC INVITED TALKS:**

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1. Gairdner Symposium Keynote Lecture  
Calgary, AB November 10, 2015  
Shaping the gut microbiome: the role of diet and chronic disease development
2. Family Medicine Residents  
Calgary, AB September 24, 2015 and October 1, 2015  
Debunking popular diets
3. International Symposium on Diabetes and Nutrition  
Toronto, ON June 12, 2015  
Metabolic benefits of prebiotic fibre
4. Grad Success Week  
Calgary, AB May 5, 2015  
Writing for and speaking to non-academic audiences about research
5. Canadian Obesity Summit  
Toronto, ON April 29, 2015  
Metabolite Profiling in Diet-Induced Maternally Obese Rats Identifies Putative Metabolic Pathways Involved in Developmental Programming of Obesity
6. Alberta Innovates Bio Solutions Impact Innovation  
Edmonton, AB, May 7, 2014  
Changing biology one cookie at a time
7. Alberta Children’s Hospital Research Institute Symposium  
Calgary, AB, April 9, 2014

Early nutrition and your lifelong condition

8. Vahouny Dietary Fiber Symposium  
Bethesda, MD, March 26-28, 2014  
Prebiotic fibres and energy intake: implications for managing body weight
9. Roger Jackson Centre for Health and Wellness Research  
Calgary, AB, March 3, 2014  
Insights into the regulation of body weight
10. Café Scientifique  
Calgary, AB, November 14, 2013  
Nutrition and Kidney Health
11. International Congress of Nutrition  
Granada, Spain September 18, 2013  
Prebiotic fibers and weight management
12. International Congress of Nutrition  
Granada, Spain September 19, 2013  
Role of prebiotics in regulating energy intake and body weight
13. International Scientific Association for Probiotics and Prebiotics  
Cork, Ireland October 2, 2012  
Extra-intestinal effects of prebiotics
14. General Mills Inc.  
Minneapolis, MN August 21, 2012  
Dietary Fiber: Benefits for Weight Management and Metabolic Disease
15. Alberta Innovates Heritage Summer Teachers Workshop  
Calgary, AB July 17, 2012  
Managing obesity: the role of dietary fiber and gut bacteria
16. Canadian Nutrition Society Annual Meeting  
Vancouver, BC May 25, 2012  
Award Lecture: Centrum New Scientist Award for Outstanding Research – Reducing the burden of obesity: the role of energy intake and gut microbiota.
17. Canadian Nutrition Society Annual Meeting  
Vancouver, BC May 25, 2012  
CIHR grant writing workshop: “From Industry to Academia: How to be Successful in Obtaining and Renewing Your Grants”

18. CIHR Institute of Nutrition, Metabolism and Diabetes Board Meeting  
Calgary, AB May 15, 2012  
Role of Energy Intake and Gut Microbiota in Reducing the Burden of Obesity
19. Nutrition Support Day Dietitians of Canada  
Calgary, AB April 28, 2012  
Reducing the burden of obesity: a role for nutrition therapy
20. BENEIO Symposium 2012  
Heidelberg, Germany, March 12-13, 2012  
Prebiotic fibers and weight management
21. The Kinesiology Colloquium  
University of Calgary, April 1, April 1, 2011  
Healthy Living Across the Lifespan
22. Liver Group Rounds  
Teaching, Research & Wellness Building, Feb. 14, 2011  
Potential for Prebiotic Fiber in Non-Alcoholic Steatohepatitis
23. International Scientific Association for Probiotics and Prebiotics  
Newport Beach, CA, USA, November 4, 2009  
“Prebiotics: Evidence, Mechanisms, and Technologies”
24. Nestle Research Centre  
Lausanne, Switzerland, August 26, 2009  
“Dietary Interventions that Regulate Satiety Hormones: Implications for Obesity and Type 2 Diabetes “
25. Child Health Research Group  
Alberta Children’s Hospital, Calgary, AB, March 17, 2009  
“Early Diet Programs Susceptibility to Obesity in Adulthood”
26. Population Health Research Group  
Tom Baker Cancer Centre, Calgary, AB, February 5, 2009  
“The Link Between Cancer and Obesity: Nutritional Strategies That Work to Reduce the Risk”
27. Women Scholars Invited Lecture Series  
University of Lethbridge, Lethbridge, AB, January 30, 2009  
“Weighing In” on Effective Nutritional Strategies for Obesity & Type 2 Diabetes
28. Behavioural Neurosciences Research Group  
University of Calgary, April 8, 2008  
“Obesity: Is it all just a gut reaction?”

29. Alberta Canadian Obesity Network – Student & New Professional Research Day  
University of Calgary March 20, 2008  
“Diet and the Gut: 2 Centres of the Universe”
30. Nutrition File 2008  
Edmonton, AB (February 12th) and Calgary, AB (February 13th, 2008)  
“Pre- and Probiotics: The Overview”
31. Nestle Nutrition Seminars  
Foothills Hospital, Calgary and 25 Telehealth sites from Alberta, Saskatchewan and  
Manitoba  
November 28, 2007  
“Pre- and Probiotics”
32. Keynote Speaker. Nestle Nutrition Presents: Topics in Nutrition Support 2007  
Vancouver, BC October 27, 2007  
“Pre- and Probiotics: Body Armor Against Sick Days”
33. Western Obesity Summit  
Kananaskis, AB May 6-8, 2007  
“Nutritional regulation of gut hormone synthesis and release”
34. University of Alberta Nutrition Seminars  
Edmonton, AB March 27, 2007  
“Promising dietary interventions that regulate gut satiety hormones and bridle food intake”
35. University of Calgary Mini-Med School  
Calgary, AB November 2, 2005  
“Nutrition and Diet”
36. Grand Rounds Alberta Children’s Hospital  
Calgary, AB, March 23, 2005  
“Pre- and Probiotics in Clinical Practice”
37. Northeast Pediatric Gastroenterology and Nutrition Conference  
Magog, Quebec October 2, 2004  
“Pre- and Probiotics: What’s In It For Our Patients?”
38. Canadian Society for Intestinal Research  
Vancouver, BC April 17, 2004  
“Pre- and Probiotics: The Battle of the Bugs”
39. Behavioural Neurosciences Research Group  
University of Calgary, December 9, 2003  
“Regulators of appetite and food intake”

40. Nestle Nutrition Seminars  
Vancouver, BC March 12-13, 2003  
“Pre and Probiotics: Old Bugs, New Science”
41. Inaugural Canadian Society for Clinical Nutrition Conference  
Nutrition in Health and Disease: The State of the Nation  
Toronto, ON May 3-4, 2002  
“Pre and Probiotics: Significance and Impact”
42. Canadian Diabetes Association Professional Conference  
Edmonton, AB October 17-20, 2001  
“The DASH Diet: Implications for Persons with Diabetes”
43. University of Alberta Nutrition and Metabolism Seminar Series  
Edmonton, AB November 29, 2000  
“Nutritional Regulation of GLP-1: A Candidate for the Treatment of Diabetes”
44. Canadian Federation of Biological Societies  
Skeletal Muscle Metabolism Workshop  
London, ON June 1996  
“GLP-1 Inhibits Glucose Uptake in Skeletal Muscle from Rats In Vitro”

#### **TECHNICAL RECORDINGS:**

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##### Interactive CD

“Pre- and Probiotics: Significance and Impact”

Recorded October 1, 2004 at CD Pharma, Montreal, Quebec

Interactive educational tool for continuing medical education for physicians and dietitians across Canada.

#### **TEACHING:**

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##### **Undergraduate Courses**

1. KNES 237 Introduction to Nutrition (Sole Instructor; 2002 onwards)  
Enrolment (245 students/year). This course is designed to provide the student with a basic understanding of the role of nutrition in health and fitness. Average Student Rating over the past 3 years: 6.4 out of 7.
2. KNES 437 Advanced Nutrition (Sole Instructor; 2004 onwards)  
Enrolment (55 students/year). This course is designed to provide the student with an advanced level of knowledge of the role of nutrition in two key areas, sport performance and the nutrition-related chronic diseases. Average Student Rating over the past 3 years: 6.7 out of 7
3. KNES 503.37 Special topics in Kinesiology: Nutrition in Chronic Disease  
Independent study sole instructor (Enrolment 1 student; 2002, 2004, 2005)

4. MDSC 507 Special Problems in Medical Science: Topics in Obesity Research  
Independent study sole instructor (Enrolment 1 student; 2009, 2010)
5. KNES 490 Honor's Program: Interpretation of Research and Research Project  
Research project supervisor (1 student every 2 years)
6. KNES 593.39 Practicum  
Practicum supervisor (2-4 students/year). Undergraduate research practicum placements ranging from assisting in clinical trials to surgical procedures in rodent models. (2007 onwards)
7. Medicine 302 Principles for Medicine - Guest lecture on nutrition and weight management for the University of Calgary Medical School (2001, 2002, 2003, 2004).
8. DNCE 203 Dancing: Body, Mind and Culture - Guest lecture on nutrition (2000, 2001, 2002)
9. KNES 355 Growth & Development – Guest lecture on nutrition (2004, 2009)

### **Graduate Courses**

1. KNES 637 Nutrition for Physically Active Populations (Sole Instructor; 2001 onwards)  
Enrolment (5-12 students/year). This course is designed to provide the graduate student with an advanced understanding of the role of nutrition in promoting health and wellness and enhancing sport performance.
2. KNES 605 Nutrition for Performance and Active Living (Sole Instructor; 2015 onwards)  
Enrolment (10 students/year). This course is part of the MKin course-based Master's degree in Kinesiology.
3. MDCH 700 Community Health Directed Study (2012)
4. MDSC 751.02 Cellular and Molecular Mechanisms in the Pathogenesis of Diabetes Mellitus  
Team instructor (Enrolment 6 students; 2001, 2004, 2005)
5. KNES 603.63 Special Topics in Kinesiology: Nutritional Ergogenic Aids  
Independent study sole instructor (Enrolment 1 student; 2001)
6. KNES 675.24 Special Topics in Exercise Physiology: Recovery Strategies for Sport  
Independent study sole instructor (Enrolment 1 student; 2003)
7. MDSC 755.36 Directed Study: Techniques in Molecular Nutrition  
Independent study sole instructor (Enrolment 1 student; 2002, 2003)
8. MED 575 Nutrition and Metabolism Seminar Course (University of Alberta) - Guest lecture (2007)
9. KNES 611 Research Methods – Guest lecture (2013, 2014)

## **SUPERVISION OF TRAINEES:**

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### **Primary Supervisor: Postdoctoral**

Shyam Mayengbam, Postdoctoral Fellow (starting 02/2016) Eye's High Postdoctoral Fellowship  
Dolan Saha, Postdoctoral Fellow (02/2010 – 10/2015) AIHS/CIHR Training Grant Fellowships  
Jennifer Lambert, Postdoctoral Fellow (09/2013 – 06/2015) CIHR and Eye's High Postdoctoral Fellowships  
Raj Akilen, Postdoctoral Fellow (10/2012 – 12/2012 – resigned due to illness)  
Nina Cluny, Postdoctoral Fellow (Co-supervisor, 04/2011 – 04/2015) AIHS Fellowship  
Lindsay Eller, Postdoctoral Fellow (05/2010 – 05/2012)  
Qixuan Chen, Postdoctoral Fellow (09/2004-02/2006)

### **Primary Supervisor: Graduate**

Emily Macphail, MSc student (05/2016 – present)  
Teja Klancic, PhD student (01/2015 – present) Vanier Scholar; AIHS Studentship; Eye's High Doctoral Scholar  
Nicole Cho, MSc student (09/2015 – present) Queen Elizabeth II Scholarship, Vera Ross Graduate Scholarship  
Jodi Nettleton, PhD student (08/2014 – present) CIHR Masters Scholarship, ACHRI-CIHR Graduate Training Studentship, Alberta Graduate Student Scholarship  
Alissa Nicolucci, MSc student (09/2013 – 09/2015) CIHR Masters Scholarship, CIHR Training Grant Studentship, Alberta Graduate Student Scholarship  
Megan Hume, MSc student (09/2013 – 09/2015) CIHR Training Grant studentship/Queen Elizabeth II Scholarships, Alberta Graduate Student Scholarship  
Heather Paul, PhD (01-2012 – present) CIHR Doctoral Scholarship; AIHS Studentship; NSERC Studentship  
Carol Dennison, MSc (09/2011 – 09/11/2013) CIHR Training Scholarship  
Danielle Reid, PhD (Co-supervisor, 05/2011 – present) NSERC Doctoral Studentship  
Erik Groves, PhD (Co-supervisor, 01/2012 – 06/2012)  
Marc Bomhof, PhD (09/2010 – 05/2016) NSERC/AIHS Studentships; Izaak Walton Killam Scholarship  
Amanda Eslinger, MD/MSc (09/2010 – 06/2012) CIHR Training Grant Studentship; Leaders in Medicine Program  
Megan Hallam, PhD (09/2008 – 09/25/2013) NSERC/CIHR Training Grant Studentships  
Danielle Reid, BSc/MSc (Integrated MSc: 05/2008 – 12/2010) CIHR Studentship  
Kim Pyra, MSc (09/2007-06/2010) CIHR Studentship  
Lindsay Eller, PhD (09/2004-02/2010) NSERC/CDA Doctoral Studentships  
Caeley Lorincz, PhD (Co-Supervisor, 09/2008-06/2009) NSERC/CIHR Studentships  
Jeff Zahavich, MSc (Co-Supervisor; 05/2008-10/2009)  
Kim Wagner Jones, MSc (09/2006-04/2009) Obesity Training Award  
Alannah Maurer, PhD (09/2003-04/2009) Diabetes Trainee Award  
Gigi Ho, Master of Biomedical Technology (09/2008-08/2009) Forefront Studentship  
Jill Parnell, PhD (09/2003-06/2008) Cosmopolitan Scholarship  
Kelly Anne Erdman, MSc (09/2002-04/2004)  
Monty Ghosh, Master of Biomedical Technology (09/2003-09/2004)  
Nathan Doerksen, Master of Biomedical Technology (09/2002-09/2003)



Kristine Cannon, Master of Biomedical Technology (09/2002-09/2003)  
Linda Mills, Master of Biomedical Technology (09/2001-09/2002)

**Primary Supervisor: Undergraduate Students/Dietetic Interns**

Lance Bartel, PURE and USRP Summer Studentship (05/2016 – 08/2016)  
Leah Johnston, Undergraduate Summer Student (05/2016 – 08/2016)  
Ashley Choo, NSERC Summer Research Student (05/2016 – 08/2016)  
Eric King, Undergraduate Practicum Student (01/2016 – 04/2016)  
Kelsey Sick, Undergraduate Practicum Student (01/2016 – 04/2016)  
Nicole Cho, ACHRI Summer Studentship (05/2015 – 08/2015)  
Nicole Cho, Undergraduate Practicum Student (09/2014 – 12/2014)  
Anjali Karuvelil, Undergraduate Practicum Student (09/2014 – 12/2014)  
Keiko Chan, AIHS Undergraduate Summer Student (05/2014-08/2014)  
Aiya Amery, USRP Summer Studentship Co-Supervisor (05/2014-08/2014)  
Ismat Ali, Undergraduate Summer Student (05/2014 – 07/2014 and 06/2015 – 07/2015)  
Levi Frehlich, Undergraduate Honour's Thesis Research Supervisor (09/2013 – 04/2014)  
Katarina Harbic, Undergraduate Practicum Student (01/2014 – 04/2014)  
Makaeley Brown, Undergraduate Practicum Student (01/2014 – 04/2014)  
Aiya Amery, Undergraduate Practicum Student (09/2013 – 12/2013)  
Sandra Evans, Undergraduate Practicum Student (09/2013 – 12/2013)  
Meghan Jackson, Undergraduate Practicum Student (09/2013 – 12/2013)  
Kenedy Hart, Undergraduate Practicum Student (09/2013 – 12/2013)  
Elyse Stokley, Undergraduate Practicum Student (09/2013 – 12/2013)  
Ismat Ali, Undergraduate Summer Student (05/2013 – 08/2013)  
Anna Hu, BHSc Research Project (09/2012 – 04/2013)  
Wanda Hui, BHSc Research Project (09/2012 – 04/2013)  
Kathy Le, BHSc Research Project (09/2012 – 04/2013)  
Minyoung Lee, BHSc Research Project (09/2012 – 04/2013)  
Eric Holmes, Undergraduate Practicum Student (01/2013 – 04/2013)  
Sheila Agha, Undergraduate Practicum Student (01/2013 – 04/2013)  
Kiril Benov, Undergraduate Practicum Student (01/2013 – 04/2013)  
Ally Cummings, Undergraduate Practicum Student (09/2012 – 11/2012)  
Bryn Edgerton, Undergraduate Practicum Student (09/2012 – 11/2012)  
Janell Lautermilch, Undergraduate Practicum Student (09/2012 – 11/2012)  
Katrina Fundytus, ACHRI Studentship Undergraduate Summer Student (05/2012 – 08/2012)  
Sandy Zhang, High School Student Lab Volunteer (07/2012)  
Kendall Schafer, Undergraduate Lab Assistant (01/2012 – 07/2012)  
Marya Neustaedter, Undergraduate Honour's Thesis Research Supervisor (09/2011 – 04/2012)  
Cayla Wiseman, Undergraduate Student Research (05/2011 – 12/2011)  
Tara Gallimore, Undergraduate NSERC Summer Research Student (05/2011 – 08/2011)  
Carol Henke, Undergraduate Honour's Thesis Research Supervisor (09/2010 – 04/2011)  
Stephanie Gill, Undergraduate Practicum Student (08/2010 – 11/2010)  
Olivia Duffy, NSERC/Alberta Innovates – Health Solutions Summer Student (05/2010-08/2010)  
Amanda Eslinger, Undergraduate Honour's Research Supervisor (09/2009 – 04/2010)  
Kristen Barton, NSERC Undergraduate Summer Research Student (05/2009 – 08/2009)  
Julie Rabnett, USRP Undergraduate Student Research Program (05/2009-08/2009)

Amanda Eslinger, O'Brien Health Sciences Summer student (05/2009 – 08/2009)  
Kim Taylor, USRP Undergraduate Student Research Program (09/2008-04/2009)  
Carol Henke, Undergraduate Practicum Student (01/2009-04/2009)  
Brendan Groat, Undergraduate Practicum Student (01/2009-04/2009)  
Brad Lorriman, Undergraduate Practicum Student (01/2009-04/2009)  
Chantelle Elson, USRP Undergraduate Student Research Program (Co-supervisor: 05/2008-08/2008)  
Lindsay Farr, Undergraduate Practicum Student (01/2008 – 04/2008)  
Chantelle Elson, Undergraduate Practicum Student (01/2008 – 04/2008)  
Paul Reglin, Undergraduate Practicum Student (09/2007 – 11/2007)  
Dan Nixon, Undergraduate Practicum Student (09/2007 – 11/2007)  
Megan Hallam, NSERC Undergraduate Summer Research Student (05/2007 – 08/2007)  
Carolyn Kolb, Summer student (05/2007 – 08/2007)  
Lakin Halvorson, Undergraduate Practicum student (05/2007 – 06/2007)  
Sarah Flood, Undergraduate Practicum student (01/2007 – 04/2007)  
Michelle Oszust, Undergraduate Practicum student (01/2007 – 04/2007)  
Christine McPherson, USRP Undergraduate Student Research Program (09/2006 – 04/2007)  
Amy Parker, Dietetic Intern (06/2006 – 09/2006)  
Emily Stevenson, O'Brien Health Sciences Summer student (05/2004 – 08/2004)  
Meghan Richards, NSERC Summer student (05/2004 – 08/2004)  
Khalil Dharjit, Summer student 2-week rotation (05/2004)  
Jennifer Lambert, Markin-Flanagan Scholar (09/2003-12/2003)  
Heather Boyd, Dietetic Intern (03/2003-06/2003)  
Jennifer Duffin, Dietetic Intern (09/2002-12/2002)  
Reta Blakely, Summer Student (05/2002 – 11/2002)  
Leah Bowen, Honour's Research Thesis (09/2001-04/2002)

**Supervisory Committee Member:**

Rogério  
Jacqueline Rios, PhD (09/2015 – present)  
Mitchel George, MSc (09/2015 – present)  
Malcolm Eaton, MSc (09/2015 – present)  
Graham MacDonald, PhD (05/2015 – present)  
Heidi Virtanen, MSc (04/2015 – present)  
Andrew Stewart, MSc (02/2014 – 01/20/2016)  
Chris Newell, PhD (09/12 – present)  
Jason Mysliki, MSc (09/12 – 04/2014)  
Colin Hyslop, MSc (10/2012 – 08/2014)  
Kelsey Collins, PhD (10/2012 – present)  
Lauren Capozzi, PhD (09/2011 – 05/2015)  
Mostafa Ghozlan, MSc (11/2011 – 03/2013)  
Elizabeth Trusevych, PhD (09/2011 – 11/2012)  
Angie Karlos, MSc (02/2011 – 05/2012)  
Maddy Purves-Smith, MSc (12/2010 – 08/2011)  
Sarah Richmond, PhD (11/2008 – 03/2012)

Christopher Hunda, MSc (03/2010 – 08/2010)  
Sharon Rowan, MSc (06/2009 – 12/2010)  
Jasmine Tunnicliffe, MSc (05/2008 – 11/2010)  
Jeffrey Zahavich, MSc (01/2008 – 06/2010)  
Chris MacKay, PhD (02/2010 – 08/2010)  
Melissa Thomas, PhD (09/2006 – 06/2010)  
Caeley Lorincz, PhD (09/2004-06/2009)  
Kelly Dinsmore, MSc (01/2008 – 03/2009)  
Allison Venner, PhD (11/2004-12/2008)  
Lynette Stephenson, MSc (09/2006 – 01/2008)  
Bikramjit Dhillon, MSc (04/2003-06/2006)  
Mohammed Abdel-Hafez, MSc (09/2000–12/2003)  
Chantel Debert, MSc (09/2001 – 08/2003)  
Maureen Kennedy, PhD (09/2002 – 04/2003)

**Examiner:**

Priska Stahel, PhD Defense – External Examiner University of Guelph (09/06/2016)  
Marc Bomhof, PhD Defense (26/05/2016)  
Sydney Candy, MSc Defense (09/05/2016)  
Fatemeh Baghbaninaghadehi, PhD Candidacy – External Examiner University of Alberta (11/04/2016)  
Andrew Stewart, MSc Defense (20/01/2016)  
Maria McInerney, MSc Defense (15/01/2016)  
Arashdeep Singh, PhD Candidacy (21/05/2015)  
Lauren Capozzi, PhD Defense (20/05/2015)  
Kendra Brett, PhD Defense – External Examiner University of Ottawa (25/05/2015)  
Chris Newell, PhD Candidacy (11/12/2014)  
Colin Hyslop, MSc Defense (27/08/2014)  
Oluyemi Falegan, PhD Candidacy (08/08/2014)  
Danielle Reid, PhD Candidacy (16/07/2014)  
Kelsey Collins, PhD Candidacy (02/07/2014)  
Sarah Lai, MSc Defense (24/06/2014)  
Kimberly Connors, MSc Defense (08/05/2014)  
Jason Myslicki, MSc Defense (17/04/2014)  
Jaclyn Wamsteeker-Cusulin, PhD Defense (04/12/2013)  
Megan Hallam, PhD Defense (25/09/2013)  
Qun Li, PhD Defense – External Examiner University of Alberta (23/09/2013)  
Carol Dennison, MSc Defense (09/2013)  
Amanda Tyndall, PhD Candidacy Exam (07/2013)  
Mostafa Ghozlan, MSc Defense (21/03/2013)  
Caroline Wu, PhD Defense – External Examiner University of Alberta (24/09/2012)  
Sabrina Hynes, MSc Defense (19/06/2012)  
Erik Groves, PhD Defense (18/06/2012)  
Amanda Eslinger, MSc Defense (07/06/2012)  
Angie Karlos, MSc Defense (04/05/2012)  
Sarah Richmond, PhD Defense (02/03/2012)

Fennigje Madeleine Purves-Smith, MSc Defense (10/08/2011)  
Megan Hallam, PhD Candidacy Exam (04/2011)  
Sharon Rowan, MSc Defense (17/12/2010)  
Danielle Reid, MSc Defense (17/12/2010)  
Erika Kristensen, PhD Defense (12/2010)  
Jasmine Tunnicliffe, MSc Defense (11/2010)  
Sarah Richmond, PhD Candidacy Exam (09/2010)  
Christopher MacKay, PhD Defense (08/2010)  
Melissa Thomas, PhD Defense (06/2010)  
Kim Pyra, MSc Thesis Defense (06/2010)  
Lindsay Eller, PhD Thesis Defense (02/2010)  
Karen Crosby, PhD Candidacy Exam (06/2009)  
Caeley Lorincz, PhD Thesis Defense (06/2009)  
Alannah Maurer, PhD Thesis Defense (04/2009)  
Kim Wagner Jones, MSc Thesis Defense (04/2010)  
Kelly Dinsmore, MSc Thesis Defense (03/2009)  
Allison Venner, PhD Thesis Defense (12/2008)  
Jill Parnell, PhD Thesis Defense (06/2008)  
Lynette Stephenson, MSc Thesis Defense (01/2008)  
Tanis Fenton, PhD Thesis Defense (11/2007)  
Allison Venner, PhD Candidacy Exam (12/2006)  
Alannah Maurer, PhD Candidacy Exam (12/2006)  
Natasha Harvey, PhD Thesis Defense (10/2006)  
Adam Chambers, PhD Candidacy Exam (10/2006)  
Jill Parnell, PhD Candidacy Exam (09/2006)  
Karen Ross, MSc Thesis Defense (08/2006)  
Bikramjit Dhillon, MSc Thesis Defense (06/2006)  
Edit Somogyi, MSc Thesis Defense (05/2005)  
Lisa Daroux, MSc Thesis Defense (04/2005)  
Monty Ghosh, Master of Biomedical Technology (MBT) (09/2004)  
Mark Barrett, MKin Comprehensive Exam (06/2004)  
Kelly Anne Erdman, MSc Thesis Defense (04/2004)  
Mohammed Abdel-Hafez, MSc Thesis Defense (12/2003)  
Christopher Barnsdale, MSc Thesis Defense (10/2003)  
Nathan Doerksen, MBT (09/2003)  
Kristine Cannon, MBT (09/2003)  
Chantel Debert, MSc Thesis Defense (08/2003)  
Andrew Carley, PhD Candidacy Exam (09/2003)  
Linda Mills, Master of Biomedical Technology (09/2002)  
Sabiha Noor Zaman, Master of Biomedical Technology (09/2002)  
Saima Ali, Master of Biomedical Technology (08/2002)  
Daniel Khalil, Master of Biomedical Technology (09/2002)

**Neutral Chair:**

Sarah Kenny, PhD Candidacy (03/09/2014)  
Kristen Barton, MSc Defense (15/06/2012)

Darmyn Ritchie, MSc Defense (09/23/2011)  
Shawn Allen, MSc Defense (04/2011)  
Constance Tweedie, MSc Defense (06/2009)  
Jill Norris, MSc Thesis Defense (06/2008)  
Aviv Fried, MSc Thesis Defense (02/2008)  
Trevor Brooks, Master of Biomedical Technology (08/2003)  
Ronen Behar, Master of Biomedical Technology (07/2003)

## **UNIVERSITY SERVICE:**

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### **Committee Membership**

#### **Faculty of Kinesiology:**

Faculty of Kinesiology Recruitment & Selection Committee – Exercise Physiology Position (2016)  
Graduate Program Coordinator Recruitment Committee (January 2016)  
Benno Nigg Chair Search and Selection Committee (March – April 2015)  
Faculty of Kinesiology Strategic Research and Innovation Committee (September 2013 – August 2014)  
Faculty of Kinesiology Research and Scholarly Leave Committee (July 2013-June 2015)  
Faculty of Kinesiology Faculty Tenure & Promotions Committee (July 2013-June 2015)  
Faculty of Kinesiology Recruitment & Selection Committee – Concussion (May – June 2013)  
Chair, Faculty of Kinesiology Recruitment & Selection Committee – Exercise Physiology Position (April 2012 – January 2013)  
Faculty of Kinesiology Recruitment & Selection Committee – Concussion Position (September – November 2011)  
Striking Committee (Kinesiology; 2010-2015)  
Dean's Advisory Committee, Faculty of Kinesiology (May 2011 – July 2012)  
Ad hoc Selection Committee for the Kinesiology Staff Award of Excellence (November 2010)  
Retreat Planning Committee (Kinesiology, September 2010 – January 2011)  
Research Committee (Kinesiology, June 2010 – June 2011)  
Academic Appointment Review Committee (Kinesiology; 2008-2009, 2010-2012)  
Research & Scholarship (Sabbatical) Leave Committee (Kinesiology; 2008; 2010)  
Faculty of Kinesiology Faculty Promotions Committee (July 2006-July 2009)  
Faculty of Kinesiology Academic Appeals Committee Alternate (July 2006 – June 2007)  
Faculty of Kinesiology Recruitment & Selection Committee (June – October 2006)  
Faculty of Kinesiology Recruitment & Selection Committee (January – April 2005)  
Curriculum Policy Committee, Faculty of Kinesiology (May 2001 – May 2005)  
Faculty of Kinesiology Representative to Faculty of Nursing (July 2004 – June 2005)  
Faculty of Kinesiology Fitness Challenge Advisory Committee (September 2004 – December 2004)  
Research Policy Committee, Faculty of Kinesiology (May 2001 – May 2004)

#### **University of Calgary**

Decanal Review Committee, Cumming School of Medicine (May – June 2016)  
ACHRI Training Program Scholarship and Fellowship Review Committee (2016-2017)  
Department of Physiology and Pharmacology Recruitment & Selection Committee, Faculty of Medicine (June 2014)

AIHS Metabolomics Research Chair Selection Committee (December 2013 – February 2014)  
Eyes High Doctoral Recruitment Scholarship committee (January 2014)  
ACHRI Symposium 2014 Planning Committee (June 2013-April 2014)  
Postdoctoral Advisory Committee (04/2013 – present)  
Brenda Strafford Foundation Chair in Geriatrics Advisory Committee (06/2012 – 06/2015)  
General Promotions Committee Appeals Sub-Committee (2012)  
Faculty of Graduate Studies Council (2011 – 2012)  
Biomedical Engineering Graduate Program Oversight Committee, Faculty of Engineering (July 2011 – 2012)  
Health Sciences Animal Care Committee (March 2007 – July 2009)  
Markin Undergraduate Student Research Project Award Selection Committee (2007-2013)  
Beth Zaruby Lectureship Committee (September 2006 – 2010)  
University Research Grants Committee (URGC), University of Calgary (June 2003 – June 2005)  
Biological Sciences Headship Recruitment and Selection Committee, Faculty of Science (November 2003 – February 2005)  
Graduate Education Committee: Master of Biomedical Technology, Faculty of Medicine (September 2001 – March 2004)  
Admissions Committee: Master of Biomedical Technology, Faculty of Medicine (September 2001 – March 2004)  
Faculty of Medicine Coordinator, High School Science Enrichment Program (April 2002 – April 2004)  
Julia McFarlane Diabetes Research Centre Recruitment & Selection Committee, Faculty of Medicine (February – March 2002)  
Department of Medical Genetics Recruitment & Selection Committee, Faculty of Medicine (February 2001)  
Diabetes and Endocrine Research Group Recruitment & Selection Committee, Faculty of Medicine (September – December 2001)  
Budget Committee, Nutrition, Genetics and Human Performance, Faculty of Kinesiology (October 2003 – October 2004)  
University of Calgary Academic Recruitment and Retention Task Force, Focus Group Member (October 2000)

## **PROFESSIONAL SERVICE:**

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### **Grant Review**

CIHR Operating Grants [Nutrition, Food & Health Peer Review Committee (Chair: 2015; Scientific Officer: 2012 (2 competitions); Member: 2008, 2009, 2013)]  
Medical Research Council United Kingdom  
CIHR Operating Grants: External Reviewer  
CIHR International Opportunities Grants: External Reviewer  
NSERC Discovery Grants: External Reviewer  
NSERC Collaborative Research and Development Grants: External Reviewer  
NSERC College and Community Innovation Grant: External Reviewer  
Canadian Diabetes Association Operating Grants: External Reviewer  
Canadian Diabetes Association Applied Research Grants: External Reviewer  
Canadian Foundation for Dietetic Research Operating Grants: External Reviewer  
Health Canada: Prevention and Promotion Diabetes Strategy: External Reviewer

Community Framework for the Prevention of Obesity: External Reviewer  
Alberta Crop Industry Development Fund: External Reviewer  
Agriculture Funding Consortium  
Ontario Ministry of Agriculture, Food and Rural Affairs/University of Guelph: External Reviewer  
Leuven Research Council (Belgium): External Reviewer  
Agriculture and Agri-Food Canada (AAFC) Science and Technology Branch

### **Manuscript Review**

American Journal of Clinical Nutrition  
American Journal of Physiology – Endocrinology and Metabolism  
American Journal of Physiology – Gastrointestinal and Liver Physiology  
Appetite  
Applied Physiology, Nutrition and Metabolism  
BMC Pregnancy and Childbirth  
British Journal of Nutrition  
BMJ Open  
Canadian Journal of Diabetes  
Canadian Journal of Physiology and Pharmacology  
Clinical and Investigative Medicine  
Clinical Journal of Sport Medicine  
Clinical Nutrition  
Critical Reviews in Food Science and Nutrition  
Diabetes, Obesity and Metabolism  
Diabetologia  
Endocrine  
Endocrinology  
Experimental Physiology  
Food & Function  
International Immunopharmacology  
Journal of Aging and Physical Activity  
Journal of Nutrition  
Journal of Nutritional Biochemistry  
Journal of Food and Nutrition Research  
Nature Reviews Endocrinology  
Nutrients  
Obesity Research & Clinical Practice  
Obesity Reviews  
Pediatric Obesity  
Physiology and Behavior  
PLoS One  
Public Health Nutrition  
Regulatory Peptides

### **Professional Committees/Conference Organization**

Judge: CNS Young Investigator Award, April 2016 (4 nominees)

Preconference Workshop Leader: Obesity Week, Careers in Academia Pre-Conference Workshop, November 3, 2015  
Member: Executive Committee - Canadian Obesity Network-Calgary Chapter (Recruitment/Networking Coordinator) August 2014-present  
Judge: Canadian Nutrition Society PhD Dissertation Award, March 2015  
Abstract Reviewer: Canadian Obesity Summit 2015 Meeting  
Evaluator: Ernest C. Manning Innovation Awards; 2014, 2008  
Advisory Committee Member: Alberta Health Services, Diabetes, Obesity and Nutrition Strategic Clinical Network, Research and Innovations Advisory Committee, February 2014 – present  
Judge: Canadian Nutrition Society PhD Dissertation Award, April 2012  
Member: Alberta Innovates – Health Solutions Innovations Platform Working Group, April 2011 – August 2012  
Reviewer: National Obesity Summit Abstracts, January 2011  
Judge: Canadian Nutrition Society Student Abstract Competition, April 2010  
Judge: Nestle CSCN/CSNS Student Abstract Competition, April 2009  
Chair and Organizer: Western Obesity Summit Symposium, 2007  
Steering Committee Member: Community Prevention of Childhood Obesity, 2003-2009  
Advisory Committee Member: Calgary Sport Centre Calgary Advisory Committee on Drugs and Supplementation 2002-2006  
Committee Member: Calgary Cardiovascular Network Hypertension Subcommittee 2001-2005  
Committee Member: Integrative Health Institute Research and Evaluation Committee 2003-2005  
Symposium Organizer: IOC Congress (Athens, Greece) 2003  
Symposium Organizing Committee: Canadian Diabetes Association Scientific Meeting, 2001

### **University of Calgary Service**

Reviewer: AIHS Summer Studentship, 2016  
Reviewer: Dean's Doctoral Scholarship, 2015  
Reviewer: Internal NSERC grant review, 2015 (Jay Cross)  
Reviewer: Internal CIHR Foundations grant review, 2015 (Reed Ferber)  
Reviewer: Internal CIHR grant review, 2015 (Jane Shearer)  
Reviewer: Internal CIHR grant review, 2015 (Gerry Giesbrecht)  
Reviewer: Internal CIHR Foundations grant review, 2014-2015 (Tannin Schmidt)  
Mentor: BHSc Mentorship Program, 2014-2015 (Laurie Lee-Glover)  
Reviewer: PURE Undergraduate Research Awards, March 2014  
Reviewer: Eyes High Doctoral Recruitment Scholarship, 2014 (12 applications); 2015 (42 applications)  
Reviewer: Dr. Benno M. Nigg Distinguished Faculty Achievement Graduate Scholarship, November 2013; 2014; 2015  
Reviewer: Eyes High Postdoctoral Recruitment Scholarship, December 2012  
Reviewer: Allan Markin Doctoral Scholarship, March 2013  
Reviewer: PURE Undergraduate Research Awards, April 2012

### **COMMUNITY ENGAGEMENT:**

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1. Telus Spark Spring Sparktacular. Reimer Nutrition Lab hosted interactive booths on “What happens in the body when you eat chocolate?” April 3 & 4, 2015
2. Guest lecture: Clinical Trial Educational Evening “Achieving a healthy childhood body weight” University of Calgary, Feb. 25, 2015
3. Calgary Flames Health Training Camp. Reimer Nutrition Lab interactive booths on nutrition and healthy body weight. January 10, 2015
4. Guest lecture: Human Performance Laboratory Public Open House “Popular Diet Myths Exposed” University of Calgary, October 15, 2014
5. Guest lecture: Clinical Trial Educational Evening “Diet, Nutrition and Weight Loss” University of Calgary, May 28, 2014.
6. Guest lecture: Lunch and Learn “Eat, walk and sleep your way to good health” University of Calgary, August 15, 2013
7. Guest lecture: Fitness Challenge Kick Off Lecture “Eat, walk and sleep your way to good health” University of Calgary, May 24, 2013
8. Job shadow: Nicole Holmes, Grade 11 Student, Oct. 26, 2012
9. District Captain: Heart and Stroke Foundation, 2011, 2012, 2013
10. Scholarships, Bursaries and Awards Committee, Centre Street Church, 2011-2014
11. Volunteer Canvasser: Heart and Stroke Foundation, 2010
12. Guest lecture: Lunch and Learn – “Weighty Issues: How Diet Affects our Genes” University of Calgary, 2009
13. Guest lecture: “Controlling Diabetes and Overweight: Today and into the Future”. Kerby Centre, Calgary, 2008
14. Guest lecture: “Preventing Type 2 Diabetes and Debunking Myths about Fad Diets”. Diabetes Awareness Day. University of Calgary, 2004.
15. Guest lecture: “Who’s Winning the Food Fight: The Low-Down on Obesity”. Big Rock University Lecture Series, 2004
16. Guest lecture: “How Today’s Foods Are Super-Sizing Our Kids”. Kinesiology Active Living Series, 2004
17. Guest lectures: “The Best Diet to Battle the Bulge”. Diabetes Awareness Day. U of Calgary, 2003
18. Guest lecture: “Optimizing Your Health With Nutrition”. CANA Ltd., 2002
19. Guest lecture: “Keys to Healthy Eating”. Okotoks Swim Club, 2001

## **MEDIA INTERVIEWS:**

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1. Pacific Standard Magazine, Francie Diep: “Common scientific errors in obesity and nutrition research” (March 31, 2016)
2. NY News Service, Rachael Stark: “Diet-induced changes in maternal microbiota during pregnancy” (March 7, 2016)
3. ALN Magazine, Elizabeth Doughman: “Gut bacteria and family obesity cycle” (March 7, 2016)
4. CTV News, Kevin Green: “Feeding healthy gut bacteria in pregnancy” (March 2, 2016)
5. CBC French Radio, Stephanie Rousseau: “Pregnancy and healthy gut bacteria” (March 2, 2016)
6. AM 660 Radio, Kaitlyn Lee: “Gut bacteria may help put a kink in family obesity cycle” (March 2, 2016)
7. Tagesanzeiger Zurich, Mr. Kung: “Nutrition research in the Human Performance Lab”

(August 25, 2015)

8. Nutritional Outlook, Maureen Kingsley: “Nutritional supplements for weight management in children/adolescents” (June 18, 2015)
9. Apple Magazine, Caitlin Crawshaw: “Prebiotic fibre stops weight gain” (June 3, 2015)
10. Vancouver The Early Edition Radio, Rick Cluff: “Study looks at slimming effects of fibre” (April 10, 2015)
11. Daybreak Kamloops Radio, Shelley Joyce: “Study looks at slimming effects of fibre” (April 10, 2015)
12. Prince George Daybreak North Radio, Russel Bowers: “Study looks at slimming effects of fibre” (April 10, 2015)
13. Cape Breton Information Morning Radio, Steve Sutherland: “Study looks at slimming effects of fibre” (April 10, 2015)
14. Windsor Morning Radio, Tony Doucette: “Study looks at slimming effects of fibre” (April 10, 2015)
15. CTV News, Global News, City TV Breakfast Television: “Fibre protects rats against junk food diet weight gain” (April 8, 2015)
16. CBC Radio Eyeopener Calgary, David Gray: “Study looks at slimming effects of fibre” (April 8, 2015)
17. CBC Radio Edmonton AM, Mark Connolly: “Prebiotic fiber reduces weight gain in rats” (April 8, 2015)
18. Canadians for Health Research, Heather Pengelley: “Researcher of the Month – February 2015” (January 14, 2015)
19. Today’s Dietitian Magazine, Jill Weisenberger: “Dietary fiber and body weight” (November 18, 2014)
20. AM 770 Radio, Angela Kokott: “Obese children do not perceive themselves as obese” (July 24, 2014)
21. Wall Street Journal, Laura Johannes, “Yacon syrup for obesity and insulin resistance”, June 11, 2014.
22. Calgary Herald, Meghan Jessiman, “Clinical trial in overweight children” March 13, 2014
23. Eatandbeatcancer.com, Harriet Sugar Miller, “Anti-cancer food: serve up some fermentable fiber”, March 13, 2014
24. CTV Health Watch, Karen Owen, “Childhood prebiotic fiber study” March 6, 2014
25. Global TV (Heather Yourex), CTV (Karen Owen), CityTV, Calgary Herald, Calgary Sun: BMO Financial Group Nutrition Dream Team Targets Childhood Obesity” (Oct. 15, 2013)
26. 210 different American News Outlets (TV and print media): BMO Financial Group \$1.5M Donation Funds Ground-breaking Research to Battle Pediatric Obesity (Oct. 15, 2013)
27. AM 770 Radio, Angela Kokott: “Prebiotic fiber for pediatric obesity” (Oct. 15, 2013)
28. Alberta Innovates Bio Solutions, Tricia Radison: “Pea fiber and health benefits” (May 16, 2013)
29. Canadian Living Magazine, Cara Rosenbloom: “Dairy product intake and type 2 diabetes” (January 14, 2013)
30. Men’s Health Magazine, Julie Stewart: “Dietary fiber, gut microbiota and weight control” (Nov. 30, 2012)
31. Global TV, Heather Yourex: “Cutting out sweets – the pulse fiber diet” (Nov. 19, 2012)
32. Western Producer, Barbara Duckworth: “The three cookie diet” (Nov. 16, 2012)

33. Sing Tao Newspapers (affiliate of Toronto Star), Teddy Kwok: "The three cookie diet" (Nov. 15, 2012)
34. CIHR Research Profile, Joe Sornberger: "Prebiotic fiber and the stop eating signals" (Nov. 1, 2012)
35. National Post, Ben Kaplan: "What to eat when you're a runner" (June 4, 2012)
36. Baby & Kleinkind Magazine (Switzerland), Susanna Steimer Miller: "How does early childhood nutrition affect future health of a human being" (January 23, 2012)
37. CBC Radio Homestretch, Jenn Blair: "Speed Date a Researcher" (January 16, 2012)
38. Gauntlet, Olivia Brooks: "Raw food diets" (September 12, 2011)
39. Leap Magazine, Cailynn Klingbeil: "Vitamin K-rich foods and blood thinners" (July 7, 2011)
40. Alberta Innovates Annual Report, Colleen Scott: "Pulse-derived food ingredients differentially modify body fat and glucose control" (Apr. 21, 2011)
41. The Calgary Journal, Aurora Graveland: "Raw vegan diets: pros and cons" (Dec. 7, 2010)
42. Postmedia News, Misty Harris: "Sugary foods decrease aggression" (Nov. 24, 2010)
43. CIHR Research Profile, Graeme Stemp-Morlock: "Dietary fiber and gut adaptation in obesity" (Nov. 23, 2010)
44. AOL, James Fell: "Fat: the forgotten foe" (August 26, 2010)
45. Prevention Magazine, Angela Pirisi: "How science is showing that nutrients can help with weight control" (October 13, 2009)
46. Vitasearch.com, Kirk Hamilton: "Expert Interviews: "Weight Loss During Oligofructose Supplementation Is Associated With Decreased Ghrelin And Increased Peptide YY In Overweight And Obese Adults," Parnell JA, **Reimer RA**, Am J Clin Nutr, 2009; 89(6): 1751-9." (June 25, 2009)
47. Radio Canada, Gabriella Mayorquin: "Early dietary programming of obesity risk in adulthood" (February 4, 2009)
48. CTV Newsnet, Scott Laurie: "Childhood diet and weight gain in adulthood" (January 14, 2009)
49. News Release: "Early childhood diet programs obesity risk in adulthood" Interviews with Canadian Press, CBC Radio, CBC TV, Global TV, City TV, The Calgary Sun, and Shaw TV (January 14, 2009). National and international coverage in over 60 television, radio, print and online venues.
50. QR77 Radio, Andy Gregory: "Childhood diet determines chronic disease risk in adulthood" (January 14, 2009)
51. CTV News, Karen Owen: "Early diet programs increased obesity in adulthood" (January 13, 2009)
52. Calgary Herald, Michelle Magnan: "Fresh ideas from health and wellness research" (January 6, 2009)
53. CBC Radio Quirks & Quarks, Cassie Williams: "Use of cranberry juice in preventing urinary tract infections" (November 27, 2008)
54. Food for Thought Magazine, Tracy Hyatt: "Fatty acid composition of lard" (October 22, 2008)
55. Leslie Beck Nutrition (CTV Canada AM): "Dietary fiber supplements" (April 23, 2008)
56. Global TV, Michelle Schurman: "Fact or fiction: myths about drinking water and artificial sweeteners" (April 18, 2008)
57. SAIT TV, Ali Rutherford: "Infant nutrition: are organics better?" (April 2, 2008)

58. Global TV, Michelle Schurman: "Prebiotic fiber: an effective weight loss supplement" (March 3, 2008)
59. Conduit Magazine (official publication of the Canadian Obesity Network), Sarah Van Engelen: "Role of diet composition in early dietary programming" (February 11, 2008)
60. Chatelaine Magazine, Andre Voshart: "How to make the most of your metabolism" (January 24, 2008)
61. CBC Radio, Donna McElligot: "Dairy products and the metabolic syndrome" (January 8, 2008)
62. CTV News, Karen Owen: "Low-fat milk product intake and prediabetes" (November 13, 2007)
63. QR77, Tara Fedun: "Milk and weight loss" (November 13, 2007)
64. Calgary Metro, Christa Sylvester: "Dairy and body fat loss research trial" (November 13, 2007)
65. Toronto Star, Megan Ogilvie: "Epigenetics and obesity" (August 28, 2007)
66. Avenue Magazine, Candace Valentine: "Early diet and genetic programming" (July 25, 2007)
67. News release: "New questions about early childhood nutrition" (May 17, 2007) Interviews by 3 television stations, 2 newspapers and 3 radio stations.
68. Men's Health Magazine, Denny Watkins: "New fibre supplement to help curb the bulging waistline" (March 13, 2007)
69. U of C Zine, Irfan Jessa: "New Advancements in Obesity Treatment Made in the Human Performance Lab" (March Edition, 2007)
70. News release: "Natural fibre may take extra pounds away" (January 31, 2007) Interviews by 7 television stations, 2 newspapers and 1 radio station.
71. Global TV, Michelle Schurman: "Citrus crisis and vitamin C rich foods" (January 19, 2007)
72. CTV National News, Sarah Galashan: "Death linked to hyperhydration and fluid requirements" (January 15, 2007)
73. Canadian Living, Jaclyn Newman: "Vitamin B12 deficiencies in obese children" (November 7, 2006)
74. Shaw TV, Pearl Tsang: "Greater obesity rates in rural versus urban Canadians" (August 23, 2006)
75. CTV National News, Sarah Galashan: "Supplements and Canadian Food Inspection Agency" (May 2, 2005)
76. Calgary Herald, Opinion Piece: "High Fructose Corn Syrup" (March 9, 2005)
77. Calgary Sun, Andrea Radke: "Teens, Diabetes, Diet and Obesity" (March 6, 2005)
78. Calgary Herald, Lin Connery: "Seniors and Unique Nutritional Challenges" (January 11, 2005)
79. CBC TV Newsworld, Cam McIntosh: "Obesity Trends in Canada and Impact on Transport Canada Raising Average Passenger Weights for Airlines" (December 22, 2004)
80. A-Channel, Leah Sarich: "Banning Trans Fats in the Canadian Food Supply" (November 25, 2004)
81. Faculty Research Profiles, Donna Gray: "Role of Diet Composition in Preventing and Treating Obesity and Diabetes" (October 25, 2004)
82. Ottawa Citizen/Canwest, David Agren: "Detoxifying Diets" (October 4, 2004)
83. City TV Vancouver, Cindy Leong: "Probiotics" (August 18, 2004)
84. Calgary Sun, Michelle Mark: "The 7 Deadly Sins – Gluttony" (August 4, 2004)

85. Calgary Sun, Teresa Taylor: "Bad Breath and Risks of the Atkins Diet" (May 17, 2004)
86. Calgary Sun, Lorena Johnson: "10 Best and Worst Foods for Health" (March 3, 2004)
87. Calgary Sun, Kyla Hoggan: "50-Plus Nutrition and Fitness" (February 27, 2004)
88. A-Channel, Leah Sarich: "Is Chocolate Healthy?" (February 13, 2004)
89. Edmonton Sun, Wendy Jacobs: "Heart and Stroke Foundations New Recommendations on Obesity" (February 12, 2004)
90. CBC Radio, Eyeopener with Jeff Collins: "Childhood Obesity and Food" (January 22, 2004)
91. CBC National, Crystal Goomansingh: "Atkins Low Carbohydrate Diet" (January 20, 2004)
92. A-Channel, Leah Sarich: "Biophotonic Scanner to Measure Antioxidants in Skin" (January 14, 2004)
93. CBC Radio, Corinne Cryan: "Vending Machine Removal from Schools" (January 6, 2004)
94. CBC TV, Rick Donkers: "Soft Drinks Banned in Elementary and Junior High Schools" (January 6, 2004)
95. A-Channel, Leah Sarich: "Echinacea and Energy Boosters in Smoothie Drinks" (November 28, 2003)
96. Calgary Herald, Val Berenay: "Food Inspection Agency Probe into Power Bars and Sport Drinks" (November 20, 2003)
97. NorthHill Publications, Bryan Alary: "Obesity and Inactive Lifestyles" (September 17, 2003)
98. CBC Radio, Calgary Eyeopener with Jeff Collins: "Back to School Lunches and Snacks" (September 3, 2003)
99. CBC Radio, Home Stretch with Andrew Schultz: "Low-Calorie Summer Drinks" (August 15, 2003)
100. CBC Radio, Home Stretch with Sharon Edwards: "Are Our Children Living in a Toxic Food Environment?" (April 7, 2003)
101. Canadian Press, Carol Harrington: "Toxic Food Environment" (March 25, 2003)
102. Parallel for University of Calgary Annual Research Report, Jacqueline Louie: "Eating Right for Health" (March 10, 2003)
103. A-Channel, Helen DeVries: "Health Effects of Processed Lunches for Children" (January 29, 2003)
104. CBC Radio, Home Stretch with Sharon Edwards: "Nutritional Content of Fast Food Healthy Choices Menus" (January 23, 2003)
105. A-Channel, Tracy Prediger: "Food Irradiation" (December 2002)
106. Global Television, Jennifer Lyall: "Childhood Obesity and Health Consequences" (November 2002)
107. QR77 Radio, Bruce Kenion: "Nutrition and High Blood Pressure" (September 2002)
108. Empire Group, Jacksonville, FL; Will Sligel: "GLP-1 Analogues and Diabetes" (2002)
109. Mount Royal College Journal, Todd Herman: "Organic Foods" (2002)
110. Pixcom Productions for Discovery Canada, Janet Torge: "Performance Series: Fuelling the Body" (November 13, 2001)
111. Chamber of Commerce, Mark Lowey: "Reverse Brain Drain" (September 29, 2000)