

CURRICULUM VITAE

January 31, 2024

PERSONAL DATA:

Name: **Raylene Alison REIMER DE BRUYN, Ph.D., R.D.**
Present Position: Professor, University of Calgary
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Nationality: Canadian
Children: Joshua (Born 2005)

PROFESSIONAL EXPERIENCE:

08/2022-12/2022 **Interim Dean**, Faculty of Kinesiology, University of Calgary
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.
07/2018-06/2021 **Associate Dean Research**, Faculty of Kinesiology, University of Calgary.
07/2011-09/2012 **Associate Dean Graduate**, 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 Centre (Lausanne, Switzerland) Molecular Nutrition Group. Supervisor: Dr. Katherine Macé.
09/1997-11/1997 **Clinical Dietitian**, Chinook Health Region (Lethbridge, Canada)

EDUCATION:

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 Centre (Lethbridge).

09/89-04/93 **Bachelor of Science with Distinction (Specialization: Foods & Nutrition),**
University of Alberta (Edmonton, Canada)

ACHIEVEMENTS AND AWARDS:

2021 Earle Willard McHenry Award for Distinguished Service in Nutrition – Canadian Nutrition Society

2020 Human Performance Laboratory Faculty Leadership Award

2020 Killam Annual Professor (\$10,000 prize)

2016 GREAT Supervisor Award, Faculty of Graduate Studies

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

2013-16 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 Research Excellence Envelope Award, Alberta Innovation and Science

1995-97 Alberta Heritage Foundation for Medical Research Studentship and Research Allowance

1995-97 Natural Sciences & Engineering Research Council (NSERC) Postgraduate PGSB Scholarship

1993-97 Walter H. Johns Graduate Fellowship

1996 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 Society for Nutritional Sciences and Wyeth Graduate Student Competition

1989-93 First Class Standing

1993 Medical Research Council Postgraduate Scholarship (Declined)

1993 Russel Food Equipment Scholarship

1993 Amy M. Coates Memorial Medal in Foods & Nutrition

1991-92 David Butchart Pope Scholarship

1991-92 Board of Governors Prize in Home Economic

1992 NSERC Undergraduate Student Research Award

1989-92 Louise McKinney Post-Secondary Scholarship

CONSULTING/ADVISORY/EDITORIAL BOARD MEMBERSHIPS:

Interim Co-Editor-in-Chief, Applied Physiology, Nutrition and Metabolism (January 2024 – present)
Associate Editor, Applied Physiology, Nutrition and Metabolism (2010-2024)
Guest Editor, Applied Physiology, Nutrition and Metabolism (2024)
Editorial Board, Frontiers in Endocrinology (September 2020 – present)
General Mills Inc., Research Consultant (2012-2021)
InovoBiologic Inc., Research Consultant (2008-2022)
Beneo GmbH, Research Consultant (2009-present)
OD1N Health Startup, Advisor (2021 – 2023)
Scientific Advisory Board, BioRad Laboratories Inc. (August 2018)
BioRad Laboratories Inc., Research Consultant (2016 – 2023)
Strategic Clinical Network Research and Innovation Advisory Committee (Diabetes, Obesity and Nutrition) (2014 – October 2017)
Adidas, Research Consultant (2015-2016)
Alberta Innovates-Health Solutions, Innovation Platforms Working Group (2011-2012)
Brenda Stafford Foundation Chair in Geriatric Medicine, Advisory Committee (2012-2015)
Abbott Nutrition, Prebiotics Advisory Board (Abbott Canada, Saint-Laurent, Québec, 2010)

PROFESSIONAL SOCIETY MEMBERSHIPS:

College of Dietitians of Alberta
Canadian Nutrition Society
American Society for Nutritional Sciences
The Obesity Society
Obesity Canada (formerly Canadian Obesity Network)

RESEARCH FUNDING:

CIHR (Canadian Institutes of Health Research) Project Grant (2024-2029). Non-nutritive sweetener consumption during pregnancy and child body mass index: can postnatal fibre consumption mitigate potential risks? **Principal Investigator:** \$715,275. Co-investigator: Gerald Giesbrecht.

UCalgary Transdisciplinary Scholarship Connector Grant (2023) Building MOMENTUM – Movement, MENopause, and optimum health: the Kinesiology Women’s Health Collaborative. **Co-applicant.** Principal applicant: Nicole Culos-Reed. \$8500.

NSERC (Natural Sciences & Engineering Research Council) Discovery Grant (2023-2028) Epigenetic and microbial mechanisms regulating intergenerational effects of paternal diet **Principal Investigator:** \$295,000.

NSERC Alliance Grant (2023-2025) Development of a novel iron-based supplement for athletes (with Nimble Science Ltd., Lallemand Inc., Mitacs) **Co-applicant.** Principal applicant: Jane Shearer. \$166,520

MITACS Accelerate (2023-2025) Probiotics in endurance exercise performance. **Principal Investigator:** \$75,000. Partner: Lallemand Solutions Santé Ltd.

Weston Family Foundation (December 2022 – December 2023) Fermentation foods for Canada: A roadmap to understanding their status, development, scientific validation, and translation. **Co-applicant.** Principal Applicant: Jeremy Burton. \$300,000 (\$100,000 to R. Reimer)

Alberta Children's Hospital Research Institute (May 2022 – April 2023) Bridge Funding. **Principal Investigator.** \$25,000.

CIHR (Canadian Institutes of Health Research) Project Grant (2022-2027) Mechanistic exploration of the factors underlying musculoskeletal degeneration in a rat model of diet-induced obesity: exercise and diet interventions. **Co-applicant.** Principal Applicant: Walter Herzog. \$1,331,000.

CIHR (Canadian Institutes of Health Research) Project Grant (2022-2027) Nutritional manipulation of the gut-brain axis in epilepsy. **Co-applicant.** Principal Applicant: Jane Shearer. \$699,976

CIHR (Canadian Institutes of Health Research) Project Grant (2021-2026) Prebiotic supplementation in newly diagnosed type 1 diabetes. **Principal Investigator:** \$734,400. Co-investigators: Carol Huang, Elizabeth Rosolowsky, Jon Meddings, Josephine Ho, Sonia Butalia, Shyamchand Mayengbam, Munier Nour.

Dairy Farmers of Canada (2021-2023) Early life dairy exposure: influence on the gut microbiota and obesity susceptibility. **Co-investigator.** Principal Investigator: Jane Shearer: \$130,000.

CIHR Research Network Grant (2019-2024) Canadian Sepsis Research Network: Improving Care Before, During and after Sepsis. **Co-applicant.** Principal applicant: Alison Fox-Robichaud. \$5,700,000.

Weston Family Microbiome Initiative Grant (2019-2022) Role of prebiotic supplementation in reducing inflammation and improving physical function in adults with knee osteoarthritis and obesity. **Principal Investigator:** Raylene Reimer; Co-Applicants: Rafael Fortuna, David Hart, Keith Sharkey. \$147,800.

CIHR (Canadian Institutes of Health Research) Project Grant (2019-2024) Role of the gut microbiota and physiological systems underlying internalizing problems during the transition from childhood to adolescence. **Co-Investigator:** \$971,550. Principal Investigator: Gerry Giesbrecht.

CIHR (Canadian Institutes of Health Research) Project Grant (2018-2023) Dietary manipulation of gut microbiota to mitigate early-life antibiotic associated obesity. **Principal Investigator:** \$669,375.

NSERC (Natural Sciences & Engineering Research Council) Discovery Grant (2016-2022) Mechanisms by which early life nutritional factors program postnatal metabolism **Principal Investigator**: \$366,000 (1-year COVID extension).

Alberta Children's Hospital Foundation Child Health Grant Program (07/2018-03/2025) Determinants of partial remission in type 1 diabetes. **Co-Lead**: \$223,076.

University of Calgary VPR Catalyst Grant (2020-2021) Harnessing the power of the gut microbiota in cancer survivorship. **Principal Investigator**: \$12,750.

Alberta Children's Hospital Research Institute (2020-2021) COVID-19 Bridge Funding. **Co-principal applicant** with Carol Huang. \$25,000.

The Arthritis Society (2019-2021) New dietary and exercise intervention strategies for patients with obesity and osteoarthritis of the knee: Translating pre-clinical innovation to patient populations. **Co-Principal Investigator**: \$360,000. Principal Investigator: Walter Herzog.

Synder Institute for Chronic Disease and International Microbiome Centre (2018-2021) Diabetes and the gut microbiome. **Principal Investigator**: \$200,000.

Bio-Rad Laboratories Inc., Hercules, CA (2018-2019) Multi-site reference range study with GA-map™ Dysbiosis Test. **Principal Investigator**: \$49,112.

General Mills Inc., Minneapolis, MN (2016-2019) Effect of inulin and other fiber source(s) on the microbiome in healthy adults. **Principal Investigator**: \$297,000.

Nutricia Research Foundation (11/2016 – 10//2017) Exploring the use of a reduced sulfur diet to improve disease severity in ulcerative colitis. **Co-investigator**: 25,000 Euros. Principal investigator: Maitreyi Raman.

Faculty of Kinesiology Seed Grant (2016-2017) A 12-week exercise program for adults with celiac disease: effects on quality of life and gut microbiota. **Co-investigator**: \$50,000. Principal Investigator: Nicole Culos-Reed.

Crohn's & Colitis Foundation of America – Broad Medical Research Program Grant (2015-2018) 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

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.

CIHR (Canadian Institutes of Health Research) Operating Grant (2014-2019) Prebiotic fiber supplementation and gut microbiota in non-alcoholic fatty liver disease. **Principal Investigator:** \$618,884.

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; Paul Beck.

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.

InovoBiologic Inc. (2012-2017) Evaluation of a highly viscous fiber supplement in obese adults. **Principal Investigator:** \$121,420. Research Contract

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. (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:

Note: Trainees indicated with an asterisk (*)

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 rhubarb 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, Tavaré 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) β -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**, *Eller LK (2010) Letter to the Editor: Response to “When the effect of dairy protein on weight gain cannot be solely ascribed to protein. *Obesity* 18(5): 863-864.
 32. **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.
 33. *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.
 34. **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.
 35. *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.
 36. *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.*
37. *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.
 38. 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.
 39. *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.
 40. **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.
 41. 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).

42. 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.
43. 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.
44. *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.
45. 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.
46. *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.
47. 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.
48. *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.
49. *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.
50. **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.
51. *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.
52. **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.
53. **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.
54. **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
55. 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
56. 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.

57. *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.
58. *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.
59. **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
60. *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.
61. *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.
62. 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.
63. 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
64. *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.
Selected for special virtual issue: Gut Check: Microbiota, Diet and Obesity 2016.
65. **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.
66. 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.
67. **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.
68. *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.
69. 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.
70. *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.

71. *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" 2015
Selected for special virtual issue: Gut Check: Microbiota, Diet and Obesity 2016
72. *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.
73. *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.
74. 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.
75. 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.
76. 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.
77. *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 2015
Selected for special virtual issue: Gut Check: Microbiota, Diet and Obesity 2016.
78. 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.
79. *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.
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 Δ^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 creamatocrit. *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.
Editor's Pick Article.
85. *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.
86. *Paul HA, *Bomhof MR, Vogel HJ, **Reimer RA** (2016) Diet-induced changes in maternal gut microbiota and serum metabolomic profiles influence programming of offspring obesity risk in rats. *Scientific Reports*, Feb 12;6:20683.
87. Venner AA, Lyon ME, **Reimer RA**, Doyle-Baker PK (2016) Changes in leptin and adiponectin concentrations during a high intensity exercise intervention programme for obese children. *Integr Obesity Diabetes* 2(2):200-217.
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 an exploratory 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. *Bomhof MR, *Paul HA, Geuking MB, *Eller LK, **Reimer RA** (2016) Improvement in adiposity with oligofructose is modified by antibiotics in obese rats. *FASEB J* 30:2720-2732.
91. 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* 34(12):2069-2078.
92. *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.
93. *Nettleton J, **Reimer RA**, Shearer J (2016) Reshaping the gut microbiota: impact of low calorie sweeteners and the link to insulin resistance. *Physiology & Behavior* 164(Pt B):488-493.
94. Ho J, **Reimer RA**, Doulla M, Huang C (2016) Effect of prebiotic intake on gut microbiota, intestinal permeability and glycemic control in children with type 1 diabetes: study protocol for a randomized controlled trial. *Trials* 17(1):347.
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. *PLoS One* 11(7):e0159524.
96. Lewinson RT, Vallerand IA, Collins KM, Wiley JP, Lun VM, Patel C, Woodhouse LJ, **Reimer RA**, Worobets JT, Herzog W, Stefanyshyn DJ (2016) Reduced knee adduction moments for management of knee osteoarthritis:: A three month phase I/II randomized controlled trial. *Gait & Posture* 50:60-68.
97. Newell C, *Bomhof MR, **Reimer RA**, Hittel DS, Rho JM, Shearer J (2016) Ketogenic diet modifies the gut microbiota in a murine model of autism spectrum disorder. *Molecular Autism* 7(1):37.

98. Collins KH, Hart DA, **Reimer RA**, Seerattan RA, Banker CW, Herzog W (2016) A high-fat high-sucrose diet rapidly alters muscle integrity, inflammation and gut microbiota in male rats. *Scientific Reports* Nov 17; 6:37278.
99. Chan C, Hyslop C, Shrivastava V, Ochoa A, Cruz A, **Reimer RA**, Huang C (2016) Oligofructose as an adjunct in treatment of diabetes in NOD mice. *Scientific Reports* Nov 22;6:37627.
100. *Reid DT, *Eller LK, *Nettleton JE, **Reimer RA** (2016) Postnatal prebiotic fibre intake mitigates some detrimental metabolic outcomes of early overnutrition in rats. *Eur J Nutr* 55(8):2399-2409.
101. Toomey CM, Whittaker JL, Nettel-Aguirre A, **Reimer RA**, Woodhouse LJ, Ghali B, Doyle-Baker PK, Emery CA (2017) Higher fat mass is associated with a history of knee injury in youth sport. *J Orthop Sports Phys Ther* 47(2):80-87.
102. Soares RN, **Reimer RA**, Murias J (2017) Changes in vascular responsiveness during a hyperglycemia challenge measured by near-infrared spectroscopy vascular occlusion test. *Microvasc Res* 111:67-71.
103. *Frehlich LC, *Parnell JA, *Eller LK, Fung TS, **Reimer RA** (2017) Dietary intake and associated body weight in Canadian undergraduate students enrolled in nutrition education. *Ecology of Food and Nutrition* 56(3):205-217.
104. *Lambert JE, *Parnell JA, *Tunnicliffe JM, Han J, Sturzenegger T, **Reimer RA** (2017) Consuming yellow pea fiber reduces voluntary energy intake and body fat in overweight/obese adults in a 12-week randomized controlled trial. *Clin Nutr*, 36:126-133.
105. *Parnell JA, *Klancic T, **Reimer RA** (2017) Oligofructose decreases serum lipopolysaccharide and plasminogen activator inhibitor-1 in adults with overweight/obesity. *Obesity*, 25(3):510-513.
106. *Hume MP, *Nicolucci AC, **Reimer RA** (2017) Prebiotic supplementation enhances satiety in children with overweight and obesity: a randomized controlled trial. *Am J Clin Nutr*, 105(4):790-799.
107. Collins KH, Sharif B, Sanmartin C, **Reimer RA**, Herzog W, Chin R, Marshall DA (2017) 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. *Can J Public Health*, 107(6):e520-e525.
108. Collins KH, Hart DA, Smith IC, Issler A, **Reimer RA**, Seerattan RA, Rios JL, Herzog W (2017) Acute and chronic changes in rat soleus muscle after high-fat high-sucrose diet. *Physiological Reports* 5(10):e13270.
109. Gibson GR, Hutkins R, Sanders ME, Prescott S, **Reimer RA**, Salminen SJ, Scott K, Stanton C, Swanson KS, Cani PD, Verbeke K, Reid G (2017) Expert consensus document: the International Scientific Association for Probiotics and Prebiotics consensus statement on the definition and scope of prebiotics. *Nat Rev Gastroenterol Hepatol* 14(8):491-502.
110. *Nicolucci AC, *Hume MP, Martinez I, *Mayengbam S, Walter J, **Reimer RA** (2017) Prebiotic reduces body fat and alters intestinal microbiota in children with overweight or obesity. *Gastroenterology* 153(3):711-722.
111. *Nicolucci AC, **Reimer RA** (2017) Prebiotics as a modulator of gut microbiota in paediatric obesity. *Pediatric Obesity* 12(4):265-273.
112. **Reimer RA**, Willis HJ, *Tunnicliffe J, Park H, Madsen KL, Soto-Vaca A (2017) Inulin-type fructans and whey protein modulate energy intake and gut microbiota in adults with overweight/obesity: a randomized controlled trial. *Mol Nutr Food Res* Nov;61(11).

113. Trotter SK, MacPherson REK, Knuth CM, Townsend LK, Peppler WT, Mikhaeil JS, Leveille CF, LeBlanc PJ, Shearer J, **Reimer RA**, Wright DC (2017) Dairy protein attenuates weight gain to a similar extent as exercise in rats fed a high fat, high sugar diet. *Obesity* 25:1707-1715.
114. Soares RN, **Reimer RA**, Alenezi Z, Doyle-Baker PK, Murias JM (2017) Metabolic inflexibility in individuals with obesity assessed by near infrared spectroscopy. *Diab Vasc Dis Res* 14(6):502-509.
115. *Dennison CA, *Eslinger AJ, **Reimer RA** (2017) Preconception prebiotic and sitagliptin treatment in obese rats affects pregnancy outcomes and offspring microbiota, adiposity and glycemia. *Frontiers in Endocrinology* Oct 30;8:301.
116. *Paul HA, Collins KH, *Bomhof MR, Vogel HJ, **Reimer RA** (2018) Potential impact of metabolic and gut microbial response to pregnancy and lactation in lean and diet-induced obese rats on offspring obesity risk. *Mol Food Nutr Res* 62(4).
117. Soares RN, **Reimer RA**, Alenezi Z, Doyle-Baker PK, Murias JM (2018) Near-infrared spectroscopy-detected differences in vascular responsiveness to a hyperglycemic challenge in individuals with obesity compared to normal-weight. *Diab Vasc Dis Res* 15(1):55-63.
118. Collins KH, Herzog W, **Reimer RA**, Reno CA, Heard BJ, Hart DA (2018) Diet-induced obesity leads to pro-inflammatory alterations to the vitreous humour of the eye in a rat model. *Inflammation Research* 67(2):139-146.
119. Reyes J, *Vannan DT, Vo T, Gulamhusein A, Beck P, **Reimer RA**, Eksteen B (2018) Neutralization of IL-15 abrogates experimental primary sclerosing cholangitis in diet-induced obese mice. *Sci Reports* 8(1):3127.
120. Collins KH, Herzog W, MacDonald G, **Reimer RA**, Lios JL, Smith IC, Zernicke RF, Hart DA (2018) Obesity, metabolic syndrome, and musculoskeletal disease: common inflammatory pathways suggest a central role for loss of muscle integrity. *Frontiers in Physiology* 9:112.
121. Leon G, de Klerk E, Ho J, Jackman M, **Reimer RA**, Connors KE, Luca P (2018) Prevalence of Comorbid Conditions Pre-existing and Diagnosed at a Tertiary Care Pediatric Weight Management Clinic. *J Ped Endocrinol Metab* 31(4):385-390.
122. Stewart A, Vanderkooi O, **Reimer RA**, Doyle-Baker PK (2018) Immune response in highly active young men to the 2014/2015 seasonal influenza vaccine. *Appl Physiol Nutr Metab* 43(8):769-774.
123. George MA, McLay KM, Doyle-Baker PK, **Reimer RA**, Murias JM (2018) Fitness level and not aging per se determines the oxygen uptake kinetics response. *Front Physiol* 9:277
124. Collins KH, Hart DA, Seerattan RA, **Reimer RA**, Herzog W (2018) High-fat/high-sucrose diet-induced obesity results in joint-specific development of osteoarthritis-like degeneration in a rat model. *Bone Joint Res* 7(4):274-281.
125. Collins KH, Sharif B, **Reimer RA**, Sanmartin C, Herzog W, Chin R, Marshall DA (2018) Association of metabolic markers with self-reported osteoarthritis among middle-aged BMI-defined non-obese individuals: a cross-sectional study. *BMC Obes* Sep 3:5:23.
126. *Vannan DT, *Bomhof MR, **Reimer RA** (2018) Comparison of glucose and satiety hormone response to oral glucose versus two mixed-nutrient meals in rats. *Front Nutr* Sep 26;5:89.
127. *Cho NA, *Klancic T, *Nettleton JE, *Paul HA, **Reimer RA** (2018) Impact of food ingredients (aspartame, stevia, prebiotic oligofructose) on fertility and reproductive outcomes in obese rats. *Obesity* 26(11):1692-1695.

128. Taylor L, Almutairdi A, Shommu N, Ghosh S, **Reimer RA**, Pannacione R, Raman M (2018) Cross-sectional analysis of overall dietary intake and Mediterranean dietary pattern in patients with Crohn's Disease. *Nutrients* 10(11):1761.
129. *Mayengbam S, *Lambert JE, *Parnell JA, *Tunncliffe JM, Han J, Sturzenegger T, Vogel HJ, Shearer J, Madsen KL, **Reimer RA** (2018) Impact of dietary fiber supplementation on modulating microbiota-host-metabolic axes in obesity. *J Nutr Biochem* 64:228-236.
130. **Reimer RA** (2019) Year in Review: Establishing the role of diet in the microbiota-disease axis. *Nat Rev Gastroenterol Hepatol* 16(2):86-87.
131. *Paul HA, Collins KH, *Nicolucci AC, Urbanski SJ, Hart DA, Vogel HJ, **Reimer RA** (2019) Maternal prebiotic supplementation reduces fatty liver development in offspring through altered microbial and metabolomic profiles in rats. *FASEB J*, 33(4):5153-5167.
132. *Mayengbam S, Virtanen H, Hittel DS, Elliott C, **Reimer RA**, Vogel HJ, Shearer J (2019) Metabolic consequences of discretionarily fortified beverage consumption containing excessive vitamin B levels in adolescents. *PLOS One* 14(1):e0209913.
133. Rios JL, *Bomhof MR, **Reimer RA**, Hart DA, Collins KH, Herzog W (2019) Protective effect of prebiotic and exercise on knee health in a rat model of diet-induced obesity. *Sci Reports* 9:3893.
134. Hart DA, Herzog W, **Reimer RA**, Rios JL, Collins KH (2019) Obesity: the impact on host systems affecting mobility and navigation through the environment. *Eur Med J* 4(1):63-70.
135. Rios JL, Ko L, Joumaa V, Liu S, Diefenthaler F, Sawatsky A, Hart DA, **Reimer RA**, Herzog W (2019) The mechanical and biochemical properties of tail tendon in a rat model of obesity: effect of moderate exercise and prebiotic fibre supplementation. *J Biomech* 88:148-154.
136. *Nettleton JE, *Klancic T, Schick A, *Choo AC, Shearer J, Borgland SL, *Chleilat F, *Mayengbam S, **Reimer RA** (2019) Low dose stevia consumption perturbs gut microbiota and the mesolimbic dopamine reward system. *Nutrients* 11(6):1248.
137. *Bomhof MR, *Parnell JA, Ramay HR, Crotty P, Rioux KP, Probert CS, Jayakumar S, Raman M, **Reimer RA** (2019) Histological improvement of non-alcoholic steatohepatitis with a prebiotic: a pilot clinical trial. *Eur J Nutr* 58(4):1735-1745.
138. Dowd AJ, Kronlund L, Parmar C, Daun JT, Wytsma-Fisher K, **Reimer RA**, Millet GY, Culos-Reed SN (2019) A 12-week pilot exercise program for inactive adults with celiac disease: study protocol. *Global Advances in Health and Medicine* 8:2164956119853777.
139. Emery CA, Whittaker JL, Mahmoudian A, Lohmander LS, Ross EM, Bennell KL, Toomey CM, **Reimer RA**, Thompson D, Ronsky JL, Kuntze G, Lloyd DG, Andriacchi T, Englund M, Kraus VB, Losina E, Bierma-Zeinstra S, Runhaar J, Peat G, Luyten FP, Snyder-Mackler L, Risberg MA, Mobasheri A, Guermazi A, Hunter DJ, Arden NK (2019) Establishing outcomes measures in early knee osteoarthritis. *Nature Reviews Rheumatology*, 15:438-448.
140. Ho J, *Nicolucci AC, Virtanen H, Schick A, Meddings J, **Reimer RA**, Huang C (2019) Effect of prebiotic on gut microbiota, intestinal permeability and glycemic control in children with type 1 diabetes. *J Clin Endocrinol Metab* 104(10):4427-4440.
- Selected for special Thematic Issue: Diabetes 2019.***

141. Salberg S, Weerwardhena H, Collins R, **Reimer RA**, Mychasiuk R (2019) The behavioural and pathophysiological effects of ketogenic diet on mild traumatic brain injury in adolescent rats. *Behav Brain Res* 376:112225.
142. *Mayengbam S, Mickiewicz B, Trottier SK, Wright DC, **Reimer RA**, Vogel HJ, Shearer J (2019) Distinct gut microbiota and serum metabolites in response to weight loss induced by either dairy or exercise in a rodent model of obesity. *J Proteome Research* 18(11):3867-3875.
143. Deleemans JM, *Chleilat F, **Reimer RA**, Carlson LE (2019) The chemo-gut study: investigating the long-term effects of chemotherapy on gut microbiota, metabolic, immune, psychological and cognitive parameters in young adult cancer survivors: study protocol. *BMC Cancer* 19(1):1243.
144. Townsend LK, Shamshoum H, Gandhi S, Trottier SK, Mutch D, **Reimer RA**, Shearer J, LeBlanc PJ, Wright DC (2020) Exercise and dairy have distinct effects on indices of liver and systemic lipid metabolism. *Obesity* 28(1):97-105.
145. *Klancic T, **Reimer RA** (2020) Gut Microbiota and Obesity: Impact of Antibiotics and Prebiotics and Potential for Musculoskeletal Health. *J Sport Health Sci* 9:110-118.
146. Collins KH, MacDonald GZ, Hart DA, Seerattan RA, Rios JL, **Reimer RA**, Herzog W (2020) Impact of age on host responses to diet-induced obesity: development of joint damage and metabolic set points. *J Sport Health Sci* 9:132-139.
147. *Nettleton JE, *Cho NA, *Klancic T, *Nicolucci AC, Shearer J, Borgland SL, *Johnston LA, Ramay HR, *Noye Tuplin E, *Chleilat F, Thomson C, *Mayengbam S, McCoy KD, **Reimer RA** (2020) Maternal low-dose aspartame and stevia consumption with an obesogenic diet alters metabolism, gut microbiota, and mesolimbic reward system in rat dams and their offspring. *Gut* 69:1807-1817.
148. *Chleilat F, *Klancic T, *Ma K, Schick A, *Nettleton JE, **Reimer RA** (2020) Human milk oligosaccharide supplementation affects intestinal barrier function and microbial composition in the gastrointestinal tract of young Sprague-Dawley rats. *Nutrients* 12(5):1532; doi:10.3390/nu12051532.
149. **Reimer RA**, Sota-Vaca A, *Nicolucci AC, *Mayengbam S, Park H, Madsen KL, Menon R, Vaughan EE (2020) Effect of chicory inulin-type fructan-containing snack bars on the human gut microbiota in low dietary fiber consumers in a randomized crossover trial. *Am J Clin Nutr* 111(6):1286-1296.
150. *Klancic T, Laforest-Lapointe I, *Choo A, *Nettleton JE, *Chleilat F, *Noye Tuplin EW, *Alukic E, *Cho NA, *Nicolucci AC, Arrieta MC, **Reimer RA** (2020) Prebiotic oligofructose prevents antibiotic-induced obesity risk and improves metabolic and gut microbiota profiles in rat dams and offspring. *Mol Food Nutr Res* 64(16):e2000288.
151. *Cho NA, *Nicolucci AC, *Klancic T, *Wang W, Sharkey KA, Mychasiuk R, **Reimer RA** (2020) Impaired hypothalamic microglial activation in offspring of antibiotic-treated pregnant/lactating rats is attenuated by prebiotic oligofructose co-administration. *Microorganisms* 8(7):1085, 1-24.
152. Swanson K, Gibson G, Reid G, Verbeke K, Hutkins R, Scott K, **Reimer RA**, Holsher H, Azad M, Delzenne N, Sanders ME (2020) The International Scientific Association for Probiotics and Prebiotics (ISAPP) consensus statement on the definition and scope of synbiotics. *Nat Rev Gastroenterol Hepatol*, 17(11):687-701. doi: 10.1038/s41575-020-0344-2.

153. *Aktary ML, *Eller LK, *Nicolucci AC, **Reimer RA** (2020) Cross-sectional analysis of the health profile and dietary intake of a sample of Canadian adults diagnosed with non-alcoholic fatty liver disease. *Food Nutr Res* 64: 4548: 1-14.
154. Zhang Z, Taylor L, Shommu N, Ghosh S, **Reimer R**, Panaccione R, Kaur S, Hyun JE, Cai C, Deehan EC, Hotte N, Madsen KL, Raman M (2020) A diversified dietary pattern is associated with a balanced gut microbial composition of Faecalibacterium and Escherichia/Shigella in patients with Crohn's disease in remission. *J Crohns Colitis* 14(11):1547-1557. doi: 10.1093/ecco-jcc/jjaa084. 1-11
155. *Mayengbam S, *Chleilat F, **Reimer RA** (2020) Dietary vitamin B6 deficiency impairs gut microbiota and host and microbial metabolites in rats. *Biomedicines* 8(11):469. doi:10.3390/biomedicines8110469.
156. *Sampsel K, Hao D, **Reimer RA** (2020) The gut microbiota: a potential gateway to improved health outcomes in breast cancer treatment and survivorship. *Int J Mol Sci* 21(23): 9239; doi:10.3390/ijms21239239
157. Shearer J, **Reimer RA**, Hittel DS, Vogel HJ, Klein MS (2020) Caffeine-containing energy shots cause acute impaired glucoregulation in adolescents. *Nutrients* 12(12):3850 doi:10.3390/nu12123850.
158. Soares RN, **Reimer RA**, Doyle-Baker PK, Murias JM (2021) Mild obesity does not affect the forearm muscle microvascular responses to hyperglycemia. *Microcirculation* 28(2):e12669. doi:10.1111/micc.12669.
159. Rios JL, Hart DA, **Reimer RA**, Herzog W (2021) Prebiotic and exercise do not stop the progression of knee osteoarthritis in a rat model of established obesity. *Cartilage* 13(2_suppl):1456S-1466S.
160. Warbeck C, Dowd AJ, Kronlund L, Parmar C, Daun JT, Wytsma-Fisher K, Millet G, Schick A, **Reimer RA**, Fung T, Culos-Reed SN (2021) Feasibility and effects of a 12-week high intensity interval training plus lifestyle education intervention on inactive adults with celiac disease. *Appl Physiol Nutr Metab*, 46(4):325-336.
161. **Reimer RA**, Wharton S, Green T, Manjoo P, Ramay HR, Gahler RJ, Wood S (2021) Effect of a functional fibre supplement on glycemic control when added to a year-long medically supervised weight management program in patients with type 2 diabetes. *Eur J Nutr* 60(3):1237-1251.
162. Willie CK, Patrician A, Hoiland RL, Williams A, Gasho C, Subedi P, Anholm J, Drane A, Tymko MM, Nowak-Flück D, Plato S, McBride E, Francesco G, Binsted G, *Eller LK, **Reimer RA**, MacLeod DB, Stembridge M, Ainslie PN (2021) Influence of iron manipulation on hypoxic pulmonary vasoconstriction and pulmonary reactivity during ascent and acclimatization to 5050 m. *J Physiol* 599(5):1685-1708
163. Naqvi SA, Taylor LM, Panaccione SR, Ghosh S, Barkema HW, Hotte N, Shommu N, Kaur S, **Reimer RA**, Madsen KL, Raman M (2021) Dietary patterns, food groups and nutrients in Crohn's disease: associations with gut and systemic inflammation. *Scientific Reports* 11(1):1674.
164. *Klancic T, Laforest-Lapointe I, *Wong J, *Choo A, *Nettleton JE, *Chleilat F, Arrieta MC, **Reimer RA** (2021) Concurrent prebiotic intake reverses insulin resistance induced by early-life pulsed antibiotic in rats. *Biomedicines* 9(1):66.
165. *Chleilat F, Schick A, Deleemans JM, **Reimer RA** (2021) Paternal methyl donor supplementation in rats improves fertility, physiological outcomes, gut microbial signatures and epigenetic markers altered by high fat/high sucrose diet. *Int J Mol Sci* 22(2):689.

166. *Noye Tuplin EW, *Chleilat F, *Alukic E, **Reimer RA** (2021) The effects of human milk oligosaccharide supplementation during critical periods of development on the mesolimbic dopamine system. *Neuroscience* 459:166-178. doi:10.1016/j.neuroscience.2021.02.006.
167. **Reimer RA**, Delzenne NM (2021) Editorial – Dieting for Success: What Baseline Gut Microbiota Can Tell You About Your Chances of Losing Weight. *Gastroenterology* 160(6):1933-1935. doi: 10.1053/j.gastro.2021.02.021
168. *Wilkins AT, **Reimer RA** (2021) Obesity, early life gut microbiota and antibiotics. *Microorganisms* 17;9(2):413. doi: 10.3390/microorganisms9020413.
169. *Chleilat F, Schick A, **Reimer RA** (2021) Microbiota changes in fathers consuming a high prebiotic fiber diet have minimal effects on male and female offspring in rats. *Nutrients* 13(3):820. <https://doi.org/10.3390/nu13030820>.
170. *Fortuna R, Hart DA, Sharkey KA, Schachar RA, Johnston K, **Reimer RA** (2021) Effect of a prebiotic supplement on knee joint function, gut microbiota and inflammation in adults with co-morbid obesity and knee osteoarthritis: study protocol for a randomized controlled trial. *Trials* 22(1):255.
171. *Chleilat F, Schick A, Deleemans JM, *Ma K, *Alukic E, *Wong J, *Noye Tuplin EW, *Nettleton JE, **Reimer RA** (2021) Paternal high protein diet modulates body composition, insulin sensitivity, epigenetics and gut microbiota intergenerationally in rats. *FASEB J*, 35(9):e21847. **Top Downloaded Article Certificate: One of the most downloaded articles in it's first 12 months in FASEB J.**
172. Smith IC, Ostertag C, O-Reilly JJ, Rios JL, Klancic T, MacDonald GZ, Collins KH, **Reimer RA**, Herzog W (2021) Contractility of permeabilized rat vastus intermedius muscle fibres following high-fat, high-sucrose diet consumption. *Appl Physiol Nutr Metab* 46(11):1389-1399. doi: 10.1139/apnm-2021-0238.
173. *Cho NA, *Sales KM, *Sampsel K, *Wang W, *Noye Tuplin EW, *Lowry DE, **Reimer RA** (2021) C-section birth increases offspring obesity risk dependent on maternal diet and obesity status in rats. *Obesity* 29(10):1664–1675 doi: 10.1002/oby.23258.
174. *Nettleton JE, *Klancic T, Schick A, *Choo AC, Cheng N, Shearer J, Borgland SL, Rho JM, **Reimer RA** (2021) Prebiotic, probiotic, and synbiotic consumption alter behavioural variables and intestinal permeability and microbiota in BTBR mice. *Microorganisms* 9(9), 1833. <https://doi.org/10.3390/microorganisms9091833>.
175. *Mayengbam S, Ellegood J, Kesler M, **Reimer RA**, Shearer J, Murari K, Rho JM, Lerch JP, Cheng N (2021) A ketogenic diet affects brain volume and metabolomics in juvenile mice. *Neuroimage* 244:118542.
176. Allain T, Fekete E, Sosnowski O, Desmots de Lamache D, Motta J-P, Leger D, Feener T, **Reimer RA**, Buret AG (2021) High-fat diet increases the severity of *Giardia* infection in association with low-grade inflammation and gut microbiota dysbiosis. *Scientific Reports* 11(1):18842.
177. Crites S, Joumaa V, Rios JL, Sawatsky A, Hart DA, **Reimer RA**, Herzog W (2021) Moderate aerobic exercise, but not dietary prebiotic fibre, attenuates losses to mechanical property integrity of tail tendons in a rat model of diet-induced obesity. *J Biomechanics*, 129:110798
178. Deleemans JM, Gajtani Z, Baydoun M, **Reimer RA**, Piedalue K-A, Carlson LE (2021) The use of prebiotic and probiotic interventions for treating gastrointestinal and psychosocial

- health symptoms in cancer patients and survivors: a systematic review. *Integ Cancer Ther* 20:1534735411061733.
179. *Wang W, Mu C, *Cho NA, *Noye Tuplin EW, *Lowry DE, *Chleilat F, *Sales KM, *Sampsell K, Shearer J, **Reimer RA** (2022) Effect of supplementation with select human milk oligosaccharides on artificially reared newborn rats. *Br J Nur* 128:1806-1816.
 180. Van de Wouw M, Yang Y, Workentine ML, Vaghef-Mehrabani E, Dewey D, **Reimer RA**, Tomfohr-Madsen L, Giesbrecht GF (2022) Associations Between the Gut Microbiota and Internalizing Behaviors in Preschool Children. *Psychosomatic Medicine* 84(2):159-169.
 181. Raman M, Rajagopalan V, Kaur S, Ma C, **Reimer RA**, Ghosh S, Vallance J (2022) Physical activity in patients with inflammatory bowel disease. *Inflamm Bowel Dis* 28(7):1100-1111.
 182. Dowd AJ, Kronlund L, Warbeck C, Parmar C, Daun JT, Wytsma-Fisher K, **Reimer RA**, Millet G, Fung T, Culos-Reed SN (2022) Effects of a 12-week HIIT+ group mediated cognitive behavioural intervention on quality of life among inactive adults with celiac disease: findings from the pilot MOVE-C study. *Psychology & Health* 37(4):440-456.
 183. Raman M, **Reimer RA**, Ghosh S, Vallance J (2022) The importance of physical activity in patients with inflammatory bowel disease: a narrative review. *Inflamm Bowel Dis* 28(6):e89.
 184. *Klancic T, Black A, **Reimer RA** (2022) Influence of antibiotics given during labor and birth on body mass index z scores in children in the All Our Families pregnancy cohort. *Ped Obesity* 17(2):e12847.
 185. *Lowry DE, *Paul HA, **Reimer RA** (2022) Impact of maternal obesity and prebiotic supplementation on select maternal milk miRNA levels and correlation to offspring outcomes. *Br J Nutr* 127:335-343.
 186. Wang Y, van de Wouw M, Drogos L, Vaghef-Mehrabanji E, **Reimer RA**, Tomfohr-Madsen L, Giesbrecht GF (2022) Sleep and the gut microbiota in preschool aged children. *Sleep* 45(6):zsac020.
 187. *Wang W, *Nettleton JE, Gänzle MG, **Reimer RA** (2022) A metagenomics approach to understand the effect of maternal consumption of non-nutritive sweeteners on obesity risk in offspring. *Front Nutr* 8:795848. *Selected for Press Release*
 188. *Noye Tuplin EW, *Alukic E, *Lowry DE, *Chleilat F, *Wang W, *Cho NA, *Sampsell K, *Sales KM, *Mayengbam S, McCoy KD, **Reimer RA** (2022) Dietary fiber combinations to mitigate the metabolic, microbial, and cognitive imbalances resulting from diet-induced obesity in rats. *FASEB J* 36:e22269.
 189. Deleemans JM, *Chleilat F, **Reimer RA**, Baydoun M, Piedalue K-A, *Lowry DE, Henning J-W, Carlson LE (2022) The Chemo-Gut Pilot Study: Associations between gut microbiota, gastrointestinal symptoms, and psychosocial health outcomes in a cross-sectional sample of young adult cancer survivors. *Current Oncology* 29(5):2973-2994.
 190. Mu C, Pochakom A, **Reimer RA**, Choudhary A, Wang M, Rho JM, Scantlebury MH, Shearer J (2022) Addition of prebiotics to the ketogenic diet improves the metabolic profile but does not affect seizures in a model of infantile spasms syndrome. *Nutrients* 14(11):2210.
 191. *Sampsell K, *Wang W, Ohland C, Mager LF, Pett N, *Lowry DE, *Sales KM, McNeely ML, McCoy KD, Culos-Reed SN, **Reimer RA** (2022) Exercise and prebiotic fiber provide gut microbiota-driven benefit in a survivor to germ-free mouse translational model of breast cancer. *Cancers (Basel)* 14(11):2722.

192. Deleemans JM, Toivonen K, **Reimer RA**, Carlson LE (2022) Chemo-Gut study: a cross-sectional survey exploring physical, mental, and gastrointestinal health outcomes in cancer survivors. *Global Advances in Health and Medicine* 11:2164957X221145940.
193. *Sales KM, **Reimer RA** (2023) Unlocking a novel determinant of athletic performance: the role of the gut microbiota, short-chain fatty acids, and “biotics” in exercise. *J Sport Health Sci* 12:36-44. *Editor-in-Chief's Choice Article*
194. *Noye Tuplin EW, *Fernandes T, *Lowry DE, *Cho NA, *Sales KM, *Patterson RA, **Reimer RA** (2023) Human milk oligosaccharide supplementation in post-weanling rats affects metabolism and gut microbiota into adulthood. *Obesity* 31:1362–1375.
195. Aktary ML, Dunn S, Sajobi T, O’Hara H, Leblanc P, McCormack GR, Caron-Roy S, Ball K, Lee YY, Nejatnamini S, **Reimer RA**, Pan B, Minaker LM, Raine KD, Godley J, Downs S, Nykiforuk CIJ, Olstad DL (2023) Impact of a farmers’ market healthy food subsidy on the diet quality of low-income adults in British Columbia, Canada: a randomized controlled trial. *Am J Clin Nutr* Feb 1:S0002-0165(23)01055-9.
196. van de Wouw M, Rojas L, Vaghef-Mehrabani E, Wang Y, Fichter C, Workentine ML, Dewey D, Arrieta MC, **Reimer RA**, Tomfohr-Madsen L, Giesbrecht GF (2023) Exploring associations between the gut microbiota and full-scale intelligence in preschool children. *Neuroscience Letters*, Accepted June 19.
197. Delgado-Bravo, M, Hart DA, **Reimer RA**, Herzog W (2023) Alterations in skeletal muscle morphology and mechanics in male Sprague Dawley rats exposed to a high-fat high-sucrose diet starting in the post-weaning period. *Scientific Reports* Accepted July 9.
198. Rojas L, van de Wouw M, Wang Y, Vaghef-Mehrabani E, Dewey D, **Reimer RA**, Letourneau N, Campbell T, Arrieta M-C, Giesbrecht GF (2023) Long-term and trimester-specific effects of prenatal stress on the child gut microbiota. *Psychoneuroendocrinology*. Accepted Sept. 4.
199. Aktary ML, Dunn S, Sajobi T, O’Hara H, Leblanc P, McCormack GR, Caron-Roy S, Yun Lee Y, **Reimer RA**, Minaker LM, Raine KD, Godley J, Downs S, Nykiforuk CIJ, Olstad DL (2023) The British Columbia Farmers’ Market Nutrition Coupon Program reduces short-term household food insecurity among adults with low incomes: a pragmatic randomized controlled trial. *J Acad Nutr Diet*, Accepted Oct 2.
200. *Wang W, Choudhary A, Mu C, Scantlebury MH, Shearer J, **Reimer RA** (2023) Protocol of nutritional intervention for neonatal rats using the “pup-in-a-cup” artificial rearing system. *STAR Protocols*, Accepted Jan 30.
201. van de Wouw M, Wang Y, Workentine ML, Vaghef-Mehrabani E, Dewey D, Arrieta M.C., **Reimer RA**, Tomfohr-Madsen L, Giesbrecht GF (2024) Cluster-specific associations between the gut microbiota and behavioral outcomes in preschool-aged children. *Microbiome*, Accepted Jan 31.
202. *Cho NA, Giesbrecht GF, Dewey D, **Reimer RA** (2023) Intrapartum antibiotic use is associated with higher child zBMI score at 4 years of age. *Obes Res Clin Pract*, Revisions requested.
203. *Cho NA, Giesbrecht GF, Dewey D, **Reimer RA** (2023) Maternal pre-pregnancy body mass index, child temperament, and childhood obesity risk. *Develop Psychobiology*, Revisions requested.
204. de Brito Fontana H, Rios JL, Michaiel J, Seerattan RA, Joumaa V, Hart DA, **Reimer RA**, Herzog W (2023) The effects of a high fat/high sucrose diet on vastus lateralis and soleus

- composition when combined with aerobic exercise and/or prebiotic fiber supplementation. Submitted to *Med Sci Sport Exerc*.
205. Qi M, Li N, Song T, Wang J, Zha A, Wang N, Deng Y, Shao Y, Xiao Y, Liao S, Cui Z, Shi Y, Wang W, Walter J, **Reimer RA**, Zhu S, Sun M, Yin Y, Zheng J, Tan B (2024) Responses to *Methanobrevibacter smithii* overgrowth by ketone body signaling mediate liver-resident macrophage activation and induce growth retardation. Submitted to *Nat Microbiol*.
 206. *Fortuna R, *Wang W, *Mayengbam S, *Noye Tuplin EW, *Sampsell K, Sharkey KA, Hart DA, **Reimer RA** (2023) Modulating the gut-joint axis with prebiotic fiber supplementation improves physical function in adults with knee osteoarthritis and obesity: results from an RCT. Submitted to *Eur J Nutr*.
 207. *Cho NA, *Sales KM, *Sampsell K, Brown D, **Reimer RA** (2023) An Apgar score for neonatal rats (RATGAR) and findings in offspring of lean and obese dams. Submitted to *Int J Devel Biol*.
 208. Khaledi N, Jeddi S, Rajabi R, Shagheyegh A, Zeinab A, Pedram R, **Reimer RA** (2023) The effect of postnatal combined modality exercise on skeletal muscle metabolic memory and exercise capacity of adult male diabetic rat. Submitted to *PLoS One*.
 209. *Mayengbam S, Raman M, Parnell JA, Eksteen B, Lambert JE, Eller LK, Nicolucci AC, Aktary ML, **Reimer RA** (2023) Effect of combined prebiotic fiber supplementation and weight loss counselling in adults with non-alcoholic fatty liver disease in a randomized controlled trial. Submitted to *Am J Clin Nutr*.
 210. Gutierrez MW, van Tilburg Bernardes E, Kalbfleisch K, Day M, Luiz Lameu E, Glatthardt T, Mercer E, Sharma S, Al-Azawy A, Chleilat F, **Reimer RA**, Arrieta M-C (2023) Gut mycobiome core species causally modulate metabolic health in mice. *Proc Natl Acad Sci*, Submitted.
 211. Mehta M, Hodgson E, **Reimer RA**, Gabel L (2024) Gut microbiome-targeted therapies and bone health across the lifespan: a scoping review. *Crit Rev Food Sci Nutr*, Submitted.

BOOK AND TEXTBOOK CHAPTERS:

1. **Raylene A. Reimer**, *Lindsay K. Eller, *Jill A. Parnell (2023) Nutrition and energy balance in active people. In: *Open Textbook of Exercise Physiology*. Editor: MacIntosh B. E-Book Chapter.
2. Hart DA, Herzog W, Rios JL, **Reimer RA**, Collins KH (2020) Understanding the initiation and progression of diet-induced obesity associated pathophysiology: lessons learned from a rat model. In: *Pathophysiology of Obesity-Induced Health Complications*. Editors: Tappia PS, Ramjiawan B, Dhalla NS. Pathophysiology of Obesity-Induced Health Complications. Advances in Biochemistry in Health and Disease, vol 19. Springer.
3. *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
4. 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** (2021) Prebiotics and gut microbiota: how they work together to affect metabolic health. *The Digest* 55(4):1-5.
<https://www.researchdpg.org/docs/The%20Digest/RDPG%20The%20Digest%20Fall%2020201.pdf>
2. **Reimer RA** (2012) Prebiotic fibres and weight management. *Window to Science*. Edition 1:2012. Review of the 2nd European BNEO Scientific Symposium.
3. **Reimer RA** (2011) Milk products play a key role in preventing type 2 diabetes. *Health Professionals*. Physicians Editorial. November Issue.
4. **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.
5. **Reimer RA** (2008) Milk product intake: implications for weight control and type 2 diabetes. *Can Nurse* 104(5):20.
6. **Reimer RA** (2004) Tightening the Link Between Diet and Chronic Disease. *CheckUp: The Magazine -for Optimal Health*. Issue 16.
7. **Reimer RA** (2004) Pro- and Prebiotics: 2018. Significance and Impact in Clinical Practice. *Clinical Nutrition Rounds Vol. 4*(3).
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:

1. **Reimer RA**, *Nicolucci A (2018) Comparison of the prebiotic effect of inulin and other fiber sources in healthy adults. Final report to General Mills Inc., Minneapolis, MN.
2. **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.
3. **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 BNEO-Orafti Inc., Tienen, Belgium.
4. **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):

Note: Trainees indicated with an asterisk (*)

1. Mamun A, van de Wouw M, Vratsidis D, Tomfohr-Madsen L, **Reimer RA**, Arrieta M-C, Lebel C, Giesbrecht G (2024) Interactions between the stool tryptophan-related metabolites and infant sleep. *Perinatal & Child Health Research Annual Meeting*, Vancouver, Canada, June 3-6, 2024.
2. Eisele M, Haskey N, Bruno A, **Reimer RA**, Yousuf M, Taylor L, Panaccione R, Raman M (2024) Exploring the relationship between the Mediterranean diet and barrier function in ulcerative colitis. *Digestive Disease Week*, Washington, DC, May 19-21, 2024.

3. Olstad DL, Aktary ML, Dunn S, O'Hara H, Leblanc P, McCormack G, Caron-Roy S, Ball K, Lee YY, Nejatnamini S, **Reimer RA**, Pan B, Minaker L, Raine KD, Godley J, Downs S, Nykiforuk CIJ, Sajobi T (2024) Can healthy food subsidies in farmers' markets improve the diet quality, food security and psychosocial well-being of adults with low income? A randomized controlled trial. Food Governance Conference, Sydney, Australia, February 14-16, 2024.
4. Mamun A, van de Wouw M, Vratsidis D, Tomfohr-Madsen L, **Reimer RA**, Arrieta M-C, Lebel C, Giesbrecht G (2023) Interactions between the stool tryptophan-related metabolites and infant sleep. ACHRI Research Retreat, Banff, Canada, December 7-8, 2023.
5. Fan Y, Sampsell K, Marcolla C, **Reimer RA**, Willing B, Burton J (2023) Canadian Fermented Food Initiative. Beneficial Microbes, Amsterdam, Netherlands, November 27-29, 2023.
6. *Noye Tuplin EW, *Fernandes T, *Lowry DE, *Cho NA, *Sales KM, *Patterson RA, **Reimer RA** (2023) Effects of human milk oligosaccharide supplementation during critical periods of neurodevelopment. The Obesity Society Obesity Week, Dallas, TX, USA, October 14-17, 2023.
7. *Lowry DE, *Noye Tuplin EW, *Sales KM, *Biddle M, McCoy KD, **Reimer RA** (2023) Maternal gut microbiota transplantation in germ-free mice partially replicates offspring phenotype. IMPACTT Symposium, Canmore, AB, Canada, July 10-12, 2023.
8. Gutierrez MW, van Tilburg Bernardes E, Kalbfleisch K, Day M, Glatthardt T, Mercer E, Chleilat F, **Reimer RA**, Arrieta MC (2023) Gut mycobioome core species causally modulate metabolic health in mice. IMPACTT Symposium, Canmore, AB, Canada, July 10-12, 2023.
9. *Sales KM, Inglis C, *Lowry DA, *Cho NA, *Noye Tuplin EW, **Reimer RA** (2023) Six weeks of domain-specific exercise training influences gut microbiota composition in healthy humans. European College of Sport Science Conference, Paris, France, July 4-7, 2023.
10. *Sales KM, Inglis C, *Lowry DA, *Cho NA, *Noye Tuplin EW, **Reimer RA** (2023) Influence of a 6-week low or high intensity exercise intervention on dietary intake, gut microbiota diversity and fecal short-chain fatty acids. Canadian Nutrition Society Annual Conference, Quebec City, Quebec, May 4-6, 2023.
11. *Patterson RA, *Fernandes T, *Noye Tuplin EW, *Cho NA, **Reimer RA** (2023) Intergenerational effects of a paternal diet high in animal protein versus plant protein. Canadian Nutrition Society Annual Conference, Quebec City, Quebec, May 4-6, 2023.
12. *Cho NA, Giesbrecht GF, **Reimer RA** (2023) Prenatal antibiotic use is associated with higher child z-BMI score at 4 years of age. Canadian Nutrition Society Annual Conference, Quebec City, Quebec, May 4-6, 2023.
13. Deleemans JM, Spiropoulos A, **Reimer RA**, Karim S, Richardson B, Carlson LE (2023) The Chemo-Gut Trial: a double-blind randomized controlled trial investigating the effects of a multi-strain probiotic on gut microbiota, gastrointestinal symptoms, and psychosocial health in cancer survivors. Society for Integrative Oncology, Banff, Canada, September 14-16, 2023.
14. van de Wouw M, Wang Y, Workentine ML, Vaghef-Mehrabani E, Dewey D, **Reimer RA**, Tomfohr-Madsen L, Giesbrecht GF (2022) Enterotype-specific associations between gut microbiota and behavioral outcomes in preschool-aged children. Child Health and Wellness Research Retreat, Calgary, AB, December 15, 2022.
15. Olstad DL, Aktary ML, Dunn S, O'Hara H, Leblanc P, McCormack GR, Caron-Roy S, Lee YY, **Reimer RA**, Sajobi T (2022) Sustained reductions in experiences of household food

insecurity among low-income adults receiving a healthy food subsidy in farmers markets: a randomized controlled trial. International Union of Nutritional Sciences - International Congress of Nutrition, Tokyo, Japan, December 6-11, 2022. *Excellent Abstract Award from Overseas Nominee*

16. *Lowry DE, *Cho NA, *Sampsel K, *Sales KM, *Noye Tuplin EW, *Chleilat F, *Wang W, **Reimer RA** (2022) Effect of antibiotic and prebiotic intake during pregnancy and lactation on maternal milk and offspring gut microbiota in rats. Obesity Week, San Diego, CA, November 2-4, 2022.
17. *Noye Tuplin EW, *Fernandes T, *Lowry DE, *Cho NA, *Sales KM, *Patterson, RA, **Reimer RA** (2022) Human milk oligosaccharide supplementation beginning during critical periods of development affects metabolism and gut microbial profile in adulthood. Obesity Week, San Diego, CA, November 2-4, 2022.
18. Deleemans JM, Toivonen K, **Reimer RA**, Carlson LE (2022) Associations between mental and physical health and GI symptoms in cancer survivors: a secondary analysis from the Chemo-Gut Survey study. IPOS World Congress, Toronto, ON, August 29 – September 1, 2022.
19. *Lowry DE, *Cho N, *Sampsel K, *Sales K, *Noye-Tuplin E, *Chleilat F, *Wang W, **Reimer RA** (2022) Maternal antibiotic and prebiotic administration alter offspring gut microbiota and obesity risk. DOHaD World Congress, Vancouver, BC, Canada, August 27-31, 2022.
20. van de Wouw M, Wang Y, Workentine ML, Vaghef-Mehrabani E, Dewey D, **Reimer RA**, Tomfohr-Madsen L, Giesbrecht GF (2022) The relationship between internalizing behaviors and the gut microbiota in preschool children. DOHaD World Congress, Vancouver, BC, Canada, August 27-31, 2022.
21. Wang Y, van de Wouw M, Drogos L, Vaghef-Mehrabani E, **Reimer RA**, Tomfor-Madsen L, Giesbrecht GF (2022) Associations between the gut microbiota and sleep in preschool-aged children. DOHaD World Congress, Vancouver, BC, Canada, August 27-31, 2022.
22. Rojas L, van de Wouw, Wang Y, Dewey D, **Reimer RA**, Letourneau N, Campbell T, Giesbrecht G (2022) Investigating the association between prenatal stress and neurodevelopment: the contributions of the gut microbiota. DOHaD World Congress, Vancouver, BC, Canada, August 27-31, 2022.
23. Casen C, Kirst KH, Gravdal K, **Reimer RA**, Gulick D, Kraft C (2022) Gut microbiota assessment in healthy adults from North America and Canada. American Association for Clinical Chemistry Annual Scientific Meeting, Chicago, IL, USA, July 24-28, 2022.
24. Deleemans JM, Toivonen K, **Reimer RA**, Carlson LE (2022) Physical, mental, and gastrointestinal health outcomes in Canadian cancer survivors: findings from the Chemo-Gut Survey Study. Canadian Psychological Association Annual National Convention, Calgary, AB, June 17-19, 2022.
25. Aktary ML, Dunn S, Sajobi T, O'Hara H, Leblanc P, McCormack GR, Caron-Roy S, Ball K, Lee YY, Nejatnamini S, **Reimer RA**, Minaker LM, Raine KD, Godley J, Pan B, Downs S, Nykiforuk CIJ, Olstad DL (2022) Impact of the British Columbia Farmer's Market Nutrition Coupon Program on the diet quality of low-income adults: a randomized controlled trial. American Society for Nutrition, Virtual, June 14-16, 2022.
26. Benham JL, Ramay H, **Reimer RA**, Booth JE, Friedenreich CM, Rabi DM, Sigal RJ (2022) Exercise increases microbiota diversity in women with polycystic ovary syndrome: a

- secondary analysis of a pilot randomized controlled trial. Endocrine Society Annual Meeting, Atlanta, GA, USA, June 11-14, 2022.
27. De Brito Fontana H, Lourdes Rios J, Seerattan RA, Jouma V, Hart DA, **Reimer RA**, Herzog W (2022) Effects of aerobic exercise and prebiotic fibre supplementation on the vastus lateralis and soleus muscles in a rat model of diet-induced obesity. EULAR European Congress of Rheumatology, Copenhagen, Denmark, June 1-4, 2022.
 28. Rojas L, Dewey D, Letourneau N, Campbell T, **Reimer RA**, Giesbrecht G (2022) Investigating the association between perinatal stress and neurodevelopment: the contribution of the gut microbiota. Canadian National Perinatal Research Meeting, Virtual, May 30-June 3, 2022.
 29. Deleemans JM, *Chleilat F, Baydoun M, **Reimer RA**, Piedalue K-A, Henning J-W, Carlson LE (2022) The Chemo-Gut pilot study: associations between gastrointestinal and psychosocial symptoms in cancer survivors. International Congress on Integrative Medicine and Health, Phoenix, AZ, May 23-26, 2022.
 30. Ramay H, **Reimer RA**, Taylor L, McCoy K, Ingram R, Ghosh S, Panaccione R, Yousuf M, Strauss J, Raman M (2022) Gut microbiome and disease activity in ulcerative colitis: relationship to dietary components and metabolic pathways. Digestive Disease Week, San Diego, CA, May 21-24, 2022.
 31. *Lowry DE, *Cho NA, *Sampsell K, *Sales K, *Noye Tuplin E, *Chleilat F, *Wang W, **Reimer RA** (2022) Co-administration of maternal antibiotics and prebiotics alters offspring gut microbiota and obesity risk. Canadian Nutrition Society Annual Conference, Gatineau, QC, May 5-7, 2022. *Canadian Nutrition Society Abstract Competition 1st Place Winner*. Appl Physiol Nutr Metab 47(4 Suppl 1):S26.
 32. *Noye Tuplin EW, *Fernandes T, *Lowry DW, *Cho NA, *Sales KM, *Patterson RA, **Reimer RA** (2022) The effect of human milk oligosaccharide supplementation during critical periods of development on metabolic function in adulthood. Canadian Nutrition Society Annual Conference, Gatineau, QC, May 5-7, 2022. Appl Physiol Nutr Metab 47(4 Suppl 1):S32.
 33. Chiu E, Taylor L, Ingram R, Panaccione R, Ghosh S, Ramay H, Madsen K, **Reimer R**, Raman M. (2022) Dietary components associated with fecal calprotectin in ulcerative colitis. Canadian Digestive Diseases Week. March 5-6, 2022. Montreal, QC. *Poster of Distinction*.
 34. *Sampsell K, Ohland C, Wang W, Mager L, Pett N, McCoy KD, Culos-Reed SN, **Reimer RA** (2021) Exercise responsiveness and prebiotic supplementation influence the gut microbiota in a murine model of breast cancer. Nature Conferences Reshaping the Microbiome through Nutrition. November 17-19, 2021.
 35. *Noye Tuplin EW, *Alukic E, *Lowry DE, *Wang W, *Chleilat F, *Cho NA, **Reimer RA** (2021) Dietary fiber combinations to mitigate the metabolic and microbial imbalance in diet-induced obesity. Obesity Week November 1-5, 2021.
 36. *Sales KM, MacInnis MJ, **Reimer RA** (2021) Assessing differences in gut microbiota composition in athletes across various sporting disciplines. Canadian Society for Exercise Physiology, October 13-16, 2021.
 37. Deleemans JM, *Chleilat F, Baydoun M, **Reimer RA**, Piedalue K-A, Henning J-W, Carlson LE (2021) The Chemo-Gut virtual pilot study: feasibility and preliminary findings. Society for Integrative Oncology, September 24-26, 2021.
 38. Deleemans JM, Gatjani Z, Baydoun M, **Reimer RA**, Piedalue K-A, Carlson LE (2021) Can prebiotic and probiotic interventions treat gastrointestinal and mental health issues in cancer

- patients and survivors? A systematic review. Society for Integrative Oncology, September 24-26, 2021.
39. *Cho NA, *Sales KM, *Sampsel K, *Wang W, *Noye Tuplin EW, *Lowry DE, **Reimer RA** (2021) C-section birth differentially affects brain, behaviour, and obesity risk of offspring based on maternal obesity status. IMPACTT Microbiome Symposium, June 14-16, 2021.
 40. Deleemans JM, **Reimer RA**, Carlson LE (2021) The Chemo-Gut Study: pilot data exploring health behaviours, quality of life, and gastrointestinal health in cancer survivors. CAPO 2021 Conference, June 8-10, 2021.
 41. Wang Y, van de Wouw M, Drogos L, **Reimer RA**, Tomfohr-Madsen L, Giesbrecht GF (2021) Association between microbial metabolites and sleep in preschool aged children. DOHaD Canada Conference, May 31-June 2, 2021.
 42. *Wang W, **Reimer RA** (2021) Artificial rearing of newborn rats: effects of human milk oligosaccharide supplementation. Canadian Nutrition Society Annual Conference, Online, April 29-30; May 6-7, 2021.
 43. Omardeen SA, *Nicolucci A, **Reimer RA**, Brosnan M, *Mayengbam S (2021) Investigating the mechanistic roles of oligofructose-enriched inulin in reducing body fat in children with overweight or obesity. Canadian Nutrition Society Annual Conference, Online, April 29-30, 2021.
 44. Deleemans JM, Piedalue K-A, **Reimer RA**, Carlson LE (2021) The Chemo-Gut online survey: pilot data exploring health behaviours and gastrointestinal health outcomes after treatments for cancer. Society of Behavioral Medicine, Online, April 12-16, 2021.
 45. Dam V, **Reimer RA**, Soto-Vaca A, *Nicolucci AC, *Mayengbam S, Park H, Madsen KL, Menon R, Vaughan EE (2021) Effect of chicory inulin-type fructan-containing snack bars on the human gut microbiota in low dietary fiber consumers in a randomized crossover trial. Beneficial Microbes Conference, Online, March 22-24, 2021.
 46. Benham JL, Ramay H, **Reimer RA**, Booth JE, Corenblum B, Friedenreich CM, Rabi DM, Sigal RJ (2021) Exercise improves microbiota diversity in women with polycystic ovary syndrome: a secondary analysis of a pilot randomized controlled trial. Endocrine Society Annual Meeting, Virtual, March 20-23, 2021. Cancelled due to COVID-19 pandemic.
 47. Chiu E, Zhang Z, Taylor L, Kaur S, Ghosh S, Panaccione R, **Reimer RA**, Raman M (2021) Dietary predictors of biological activity in Crohn's disease: a retrospective cohort study. Canadian Digestive Diseases Week (Banff, AB – Online due to COVID-19), Feb. 28 – Mar. 10, 2021.
 48. *Cho NA, *Sampsel K, *Sales KM, *Noye Tuplin E, **Reimer RA** (2021) Caesarean section is associated with a reduction in appetite-related neuropeptides in offspring of obese dams. Keystone Symposium, Virtual, Feb. 1-3, 2021.
 49. *Lowry DE, *Cho NA, *Sampsel K, *Sales K, *Noye-Tuplin E, *Chleilat F, *Wang W, **Reimer RA**. Using prebiotics to reduce obesity risk associated with maternal antibiotic exposure. Keystone Symposium, Virtual, Feb. 1-3, 2021.
 50. *Cho NA, *Sales KM, *Sampsel K, *Noye Tuplin E, **Reimer RA** (2021) Mode of delivery and maternal obesity alter offspring obesity risk and hypothalamic gene expression. Keystone Symposium, Virtual, Jan. 18-21, 2021. *Keystone Symposia Scholarship*
 51. Dam V, **Reimer RA**, Soto-Vaca A, *Nicolucci AC, *Mayengbam S, Park H, Madsen KL, Menon R, Vaughan EE (2020) Effect of chicory inulin-type fructan-containing snack bars on

- the human gut microbiota in low dietary fiber consumers in a randomized crossover trial. 12th Vahouny Fiber Symposium, Online, Dec. 14-15, 2020.
52. *Cho NA, *Sales KM, *Sampsel K, **Reimer RA** (2020) Maternal obesity status affects offspring obesity risk regardless of mode of delivery. Obesity Week (Atlanta – Online due to COVID-19), Nov. 2-6, 2020.
 53. *Noye Tuplin EW, *Alukic E, *Lowry DE, *Chleilat F, *Wang W, *Cho NA, **Reimer RA** (2020) Dietary fiber attenuates novel object impairment resulting from a high fat/sucrose diet and increases hippocampal DeltaFosB. Society for Neuroscience Annual Meeting, Washington, DC, Oct. 24-28, 2020.
 54. *Noye Tuplin EW, *Alukic E, *Lowry DE, *Chleilat F, *Wang W, *Cho NA, **Reimer RA** (2020) Dietary fibre combinations to mitigate metabolic and microbial imbalance in diet-induced obese rats. Canadian Nutrition Society Annual Conference, Edmonton, AB, May 7-9, 2020.
 55. Rios JL, Joumaa V, Michaiel J, **Reimer RA**, Hart DA, Herzog W (2020) Effects of prebiotics and exercise on the progression of osteoarthritis in a rat-model of metabolic syndrome. World Congress on Osteoarthritis, Vienna, Austria, April 30-May 3, 2020.
 56. Allain T, **Reimer RA**, Buret A (2020) Western Diet Increases the Severity of *Giardia* Infection in Association with Gut Microbiota Dysbiosis. Experimental Biology, San Diego, CA, April 4-7, 2020.
 57. Taylor L, Schick A, Ohland C, McCoy K, Kaur S, Panaccione R, **Reimer RA**, Raman M (2020) Exploring relationships between microbiome, fecal calprotectin and healthy eating index in patients with ulcerative colitis: Interim analyses of a randomized controlled trial. European Crohn's and Colitis Organisation Congress, Vienna, Austria, Feb. 12-15, 2020.
 58. Vallance JK, Lyden KA, Schick A, Ohland C, McCoy K, Kaur S, Panaccione R, **Reimer RA**, Taylor L, Raman M (2020) Objectively measured time spent sitting, standing upright, and stepping is associated with disease severity and fecal calprotectin in patients with ulcerative colitis. European Crohn's and Colitis Organisation Congress, Vienna, Austria, Feb. 12-15, 2020.
 59. *Fortuna R, Hart DA, Sharkey K, **Reimer RA** (2020) A 3-month prebiotic diet intervention can improve knee joint function in adults with obesity suffering from knee osteoarthritis. Orthopaedic Research Society, Phoenix, AZ, February 8-11, 2020.
 60. *Mayengbam S, **Reimer RA** (2019) Vitamin B6 modulates gut microbiota and its metabolites in rats. Metabolomics Association of North America Conference, Atlanta, GA, Nov. 15-17, 2019. *Metabolomics Association of North America Early Career Travel Award.*
 61. *Fortuna R, Hart DA, Sharkey K, **Reimer RA** (2019) Can a prebiotic supplement improve knee joint function in adults with obesity suffering from knee osteoarthritis? Obesity Week, Las Vegas, NV, November 3-7, 2019.
 62. Wang Y, **Reimer RA**, Giesbrecht G (2019) Gut Microbiota May Play Roles in the Intergenerational Transmission of Depression. DOHaD Conference, Melbourne, Australia, October 20-23, 2019.
 63. *Cho NA, *Nicolucci AC, Sharkey K, **Reimer RA** (2019) Maternal antibiotic/prebiotic consumption alters microglia response to peripheral inflammation in offspring. Cell Symposium: Neuro-Immune Axis, Long Beach, CA, September 22-24, 2019.

64. Salberg S, Collins R, Weerawardhena H, Salberg S, Collins R, Weerawardhena H, **Reimer RA**, Mychasiuk R (2019) The effects of the ketogenic diet on mild traumatic brain injury in adolescent rats. International Neurotrauma Conference, Pittsburg, PA, June 29-July 3, 2019.
65. Rios JL, Joumaa V, Michaiel J, **Reimer RA**, Hart DA, Herzog W (2019) The effects of moderate exercise and prebiotic fibre supplementation on vastus lateralis muscle in a rat model of obesity. XXVII Congress of the International Society of Biomechanics, Calgary, AB, July 31-Aug. 4, 2019.
66. *Klancic T, *Wong J, *Choo AC, *Nettleton JE, *Chleilat F, Laforest-Lapointe I, **Reimer RA** (2019) Microbiota and metabolic changes caused by early life pulsed antibiotic exposure are restored with concurrent prebiotic supplement in rats. 26th European Congress on Obesity, Glasgow, Scotland, April 28 – May 1, 2019.
67. *Klancic T, *Wong J, *Choo AC, *Nettleton JE, *Chleilat F, Laforest-Lapointe I, **Reimer RA** (2019) Concurrent prebiotic supplementation reverses hyperinsulinemia induced by early-life pulsed antibiotics in rats. Childhood Obesity-2019, Rome, Italy, March 18-19, 2019.
68. Raman M, Zhang Z, Taylor L, Shommu N, Ghosh S, Reimer R, Panaccione R, Hyun JE, Hotte N, Madsen K (2019) Crohn's disease patients in remission consuming a diversified compared with a non-diversified diet have altered gut microbiota and decreased richness. Digestive Disease Week, San Diego, CA, May 18-21, 2019.
69. Deleemans JM, *Chleilat F, **Reimer RA**, Carlson LE (2019) Long-term effects of cancer treatment on gut microbiota, metabolic, immune, psychological and cognitive-behavioral parameters in adolescent and young adult (AYA) cancer survivors. Association for Psychological Science, Washington, DC, May 23-26, 2019.
70. Allain T, Dimitri Desmonts de Lamache, Jean-Paul Motta, Troy Feener, **Reimer RA**, Buret A (2019) Effects of western diet on giardiasis: a role for fatty acids and gut microbiota in the persistence and severity of *giardia* infections. Experimental Biology 2019, Orlando, FL, April 6-9, 2019,
71. *Nettleton JE, *Cho NA, *Klancic T, *Nicolucci A, Shearer J, Borgland SL, Reimer RA (2018) Maternal low-dose aspartame consumption impacts cecal microbiota, body weight and metabolism in dams and offspring. Obesity Week, Nashville, TN, November 12-16, 2018. TOS Basic Science and Beer Lightning Talks.
Selected as one of the top 20 basic science posters from the nearly 1,000 abstracts submitted to ObesityWeek 2018.
72. *Klancic T, *Choo AC, *Nettleton JE, *Cho NA, *Nicolucci AC, *Chleilat F, **Reimer RA** (2018) Maternal prebiotic supplementation during pregnancy/lactation alters gut microbiota and prevents antibiotic-associated obesity risk in offspring in rats. Obesity Week, Nashville, TN, November 12-16, 2018.
Selected as one of the top 10 abstracts submitted to ObesityWeek 2018.
73. *Chleilat F, *Klancic T, *Nettleton JE, *Choo A, **Reimer RA** (2018) Human milk oligosaccharides, 2'-O'-fucosyllactose and 3' sialyllactose, affect colon structure and bone mineral density in young Sprague-Dawley rats. Obesity Week, Nashville, TN, November 12-16, 2018.
74. *Klancic T, *Choo AC, *Nettleton JE, *Cho NA, *Nicolucci AC, *Chleilat F, **Reimer RA** (2018) Prebiotic supplementation during pregnancy/lactation alters fecal/cecal microbiota and reduces antibiotic-associated obesity risk in rats. 7th Conference on Recent Advances in

the Prevention and Treatment of Childhood and Adolescent Obesity, Calgary, AB, October 25-27, 2018.

75. *Nettleton JE, *Cho NA, *Nicolucci A, *Klancic T, Shearer J, Borgland SL, Reimer RA (2018) Maternal low-calorie sweetener exposure impacts metabolic outcomes, cecal microbiota, and reward circuitry in dams and offspring. 7th Conference on Recent Advances in the Prevention and Treatment of Childhood and Adolescent Obesity, Calgary, AB, October 25-27, 2018.
76. Ho J, **Reimer RA**, Meddings J, Virtanen H, Hinkley C, Huang C (2018) Effect of prebiotic intake on glycemic control and intestinal permeability in children with type 1 diabetes. Diabetes Canada Conference, Halifax, NS, October 10-13, 2018.
77. *Klancic T, *Choo A, *Nettleton J, *Nicolucci, *Cho N, *Chleilat F, **Reimer RA** (2018) Antibiotic-associated obesity is prevented with prebiotic supplementation in rats. Campus Alberta Student Conference on Health, Calgary, AB, September 14-15, 2018.
3rd place oral presentation award.
78. *Aktary ML, *Eller LK, **Reimer RA**. (2018) Dietary intake of adults with non-alcoholic fatty liver disease. Campus Alberta Student Conference on Health (CASCH), Calgary, AB, September 14-15, 2018.
79. *Aktary ML, *Eller LK, Reimer RA. Dietary intake of adults with non-alcoholic fatty liver disease. Second Annual Canadian Obesity Network (CON)-YYC Research Showcase, Calgary, AB, June 2018.
80. *Klancic T, *Choo A, *Nettleton J, *Nicolucci, *Cho N, *Chleilat F, Reimer **RA** (2018) Co-administering prebiotics with antibiotics improves obesity risk, metabolic profiles and gut microbiota in dams and their offspring. Canadian Obesity Student Meeting, London, ON, June 20-22, 2018.
81. *Chleilat F, *Klancic T, *Choo A, *Nettleton J, **Reimer RA** (2018) Effects of oral supplementation of human milk oligosaccharides, 2'-O-Fucosyllactose and 3' Sialyllactose, on organ weight and insulinemic response in young Sprague Dawley rats. Canadian Obesity Student Meeting, London, ON, June 20-22, 2018.
82. *Nettleton JE, *Cho NA, *Nicolucci A, *Klancic T, Shearer J, Borgland SL, **Reimer RA** (2018) Maternal low-calorie sweetener consumption alters body composition, mesolimbic reward system, and gut microbiota in dams and offspring. Canadian Obesity Student Meeting, London, ON, June 20-22, 2018.
83. *Nettleton JE, *Cho NA, *Nicolucci AC, *Klancic T, Shearer J, Borgland SL, **Reimer RA** (2018) Maternal low-calorie sweetener consumption impact metabolism, body weight, and cecal microbiota in dams and offspring. Canadian Obesity Network Calgary Chapter Annual Research Showcase, Calgary, AB, June 15, 2018.
84. *Nettleton JE, *Cho NA, *Nicolucci AC, *Klancic T, Shearer J, Borgland SL, **Reimer RA** (2018) Maternal low-calorie sweetener exposure impacts metabolic outcomes, cecal microbiota, and reward circuitry in dams and offspring. Owerko Centre Conference, Calgary, AB, June 7, 2018.
85. *Klancic T, *Choo A, *Nettleton J, *Nicolucci, *Cho N, *Chleilat F, **Reimer RA** (2018) Co-administering prebiotics with antibiotics improves the obesity risk, metabolic profiles and gut microbiota in dams and their offspring. Owerko Centre Conference, Calgary, AB, June 7, 2018.
86. *Nettleton JE, *Cho NA, *Klancic T, Shearer J, Borgland SL, **Reimer RA** (2018) Maternal low-dose aspartame exposure may induce metabolic derangements and alter mesolimbic

- reward system and gut microbiota composition in dams and offspring. Canadian Nutrition Society Halifax, May 3-5, 2018.
87. Dowd AJ, Kronlund R, Warbeck C, Wytsma-Fisher K, Parmar C, Millet G, **Reimer RA**, Culos-Reed SN (2018) Effects of a 12-week exercise and lifestyle intervention on behavioural and psychosocial outcomes in adults with celiac disease. Society of Behavioral Medicine, New Orleans, USA, April 11-14, 2018.
 88. *Macphail E, **Reimer R**, Arnold P (2018) A characterization of nutrition status and gut microbiota in obsessive-compulsive disorder (OCD) in youth. J Cdn Assoc Gastroenterol 1(Suppl_2), p451-452; Canadian Digestive Diseases Week, Toronto, ON, Feb. 9-12, 2018.
 89. MacDonald GZ, Collins KH, Rios JL, Hart DA, Seerattan RA, Reimer RA, Herzog W (2018) Exposure of Male Sprague-Dawley Rats to a High-Fat/High-Sucrose Diet from Weaning Leads to Obesity-Induction but not Overt Knee Joint Damage or an Inflammatory State by 17 Weeks of Age. ORS Meeting, New Orleans, LS, March 10-13, 2018.
 90. *Nettleton JE, *Cho NA, *Klancic T, Shearer J, Borgland SL, Reimer **RA** (2018) Cecal microbiota, body weight and metabolism are changed in dams and offspring following maternal low dose aspartame consumption. Keystone Symposium Manipulation of the Gut Microbiota for Metabolic Health, Banff, AB, March 4-8, 2018.
 91. *Klancic T, *Choo AC, *Nettleton JE, *Cho NA, *Nicolucci AC *Chleilat F, **Reimer RA** (2018) Changes in gut microbiota are associated with prebiotics attenuation of offspring obesity induced by maternal antibiotic use. Keystone Symposium Manipulation of the Gut Microbiota for Metabolic Health, Banff, AB, March 4-8, 2018.
 92. *Cho N, *Nicolucci A, *Klancic T, Sharkey K, Mychasiuk R, **Reimer RA** (2018) Perturbation of maternal microbiota alters behavior and expression of inflammatory markers and neurotransmitters in offspring. Keystone Symposium Manipulation of the Gut Microbiota for Metabolic Health, Banff, AB, March 4-8, 2018.
 93. Dowd AJ, Kronlund R, **Reimer RA**, Millet G, Culos-Reed SN (2018) Effects of a 12-week high intensity interval training and lifestyle intervention on physiological outcomes among inactive adults with celiac disease. Active Living Conference, Banff, AB, Feb. 11-14, 2018.
 94. Taylor L, Almutairdi A, **Reimer RA**, Madsen K, Ghosh S, Panaccione R, Shommu N, Fedorak R, Raman M (2018) Dietary intake of patients with Crohn's disease in remission: a single center experience. Canadian Digestive Disease Week, Toronto, ON, Feb. 9-12, 2018.
 95. Raman M, Taylor L, Panaccione R, Ghosh S, **Reimer RA**, Shommu N, Fedorak R, Madsen K (2018) Fecal short chain fatty acid composition in Crohn's disease in patients consuming a diversified compared to non-diversified diet. Canadian Digestive Disease Week, Toronto, ON, Feb. 9-12, 2018
 96. *Macphail ECM, **Reimer RA**, Arnold PD (2017) The role of diet and gut microbiota in obsessive compulsive disorder in youth. Canadian Society for Clinical Investigation - Clinical Investigator Trainee Association of Canada. Nov. 20-22, 2017.
 97. *Chleilat F, *Hallam M, **Reimer RA** (2017) Maternal high-protein or high-prebiotic fiber diets affect microRNA-107 and microRNA-24 expression in offspring. Keystone Symposium: Maternal-Fetal Crosstalk: Harmony vs. Conflict, Washington, DC, October 4-8, 2017.
 98. *Cho N, *Nicolucci A, *Klancic T, Sharkey K, Mychasiuk R, **Reimer RA** (2017) Maternal antibiotic/prebiotic consumption alters behavior and expression of inflammatory markers and neurotransmitters in offspring. NeuroGastro Conference, Cork, Ireland, August 24-26, 2017.

99. *Paul HA, Collins KH, Urbanski S, *Nicolucci AC, Hart DA, **Reimer RA** (2017) Maternal Prebiotic Intake Reduces Offspring Fatty Liver and Results in Persistent Changes in Offspring Gene Expression. Keystone Symposium: Gastrointestinal Control of Metabolism, Copenhagen, Denmark, May 9-13, 2017.
100. *Klancic T, *Choo AC, *Cho NA, **Reimer RA** (2017) Prebiotics prevent antibiotic-induced obesity in pregnant/lactating dams and their offspring. Keystone Symposium: Gastrointestinal Control of Metabolism, Copenhagen, Denmark, May 9-13, 2017.
101. Almutairdi A, **Reimer RA**, Madsen K, Ghosh S, Panaccione R, Ferdous M, Raman M (2017) Dietary intake of patients with Crohn's disease in remission: a single centre experience. Digestive Disease Week, Chicago, IL, May 6-9, 2017.
Poster of Distinction (top 10%)
102. Collins KH, Hart DA, Seerattan RA, **Reimer RA**, Herzog W (2017) Diet-induced obesity and the development of hip and shoulder osteoarthritis: insights from a rat model. Osteoarthritis Research Society International, Las Vegas, NV, April 27-30, 2017
103. Toomey CM, Whittaker JL, Nettel-Aguirre A, **Reimer RA**, Emery CA (2017) Higher abdominal fat in youth and young adults 3-10 years following a sport-related knee injury. Osteoarthritis Research Society International, Las Vegas, NV, April 27-30, 2017
104. *Nettleton JE, *Cho NA, *Klancic T, *Johnston L, Shearer J, Borgland S, **Reimer RA** (2017) Maternal aspartame consumption may induce metabolic derangements and impact central pathways involved in feeding in moms and pups in rats. Canadian Obesity Summit, Banff, Canada April 25-29, 2017.
105. *Klancic T, *Choo AC, *Cho NA, *Paul HA, **Reimer RA** (2017) Maternal low-dose antibiotic consumption during pregnancy and lactation in rats increases their body weight during lactation which is reversed with prebiotic diet. Canadian Obesity Summit, Banff, Canada April 25-29, 2017.
Best PhD Poster Award
106. *Cho NA, *Klancic T, **Reimer RA** (2017) Maternal low-dose antibiotic consumption during pregnancy and lactation in rats may alter behavior and cognition in dams and their offspring. Canadian Obesity Summit, Banff, Canada April 25-29, 2017.
107. *Paul HA, *Bomhof MR, Vogel HJ, **Reimer RA** (2017) Longitudinal 1H NMR metabolic profiling identifies differences in maternal response to pregnancy and lactation between lean and diet-induced obese Sprague-Dawley rats. Canadian Obesity Summit, Banff, Canada April 25-29, 2017.
108. Leon G, de Clerk E, Ho J, Jackman M, **Reimer RA**, Connors KE, Luca P (2017) Prevalence of comorbid conditions pre-existing and diagnosed at a tertiary care pediatric weight management clinic. Canadian Obesity Summit, Banff, Canada April 25-29, 2017.
109. *Mayengbam S, *Lambert JE, *Parnell JA, *Tunnicliffe JM, Han J, Sturzenegger T, Vogel H, Shearer J, **Reimer RA** (2017) Effect of yellow pea fiber on fecal short-chain fatty acids and bile acids in adults with overweight/obesity: a 12 week randomized controlled trial. Canadian Obesity Summit, April 25-29, 2017.
110. *Paul HA, *Bomhof MR, Vogel HJ, **Reimer RA** (2017) Longitudinal 1H NMR metabolomics analysis identifies differences in maternal response to pregnancy and lactation between lean and diet-induced obese Sprague-Dawley rats. Experimental Biology, Chicago, IL, April 22-27, 2017.
American Society for Nutrition's Emerging Leader Poster Competition Finalist and Winner

111. *Mayengbam S, *Lambert JE, *Parnell JA, *Tunncliffe JM, Han J, Sturzenegger T, Vogel H, Shearer J, **Reimer RA** (2017) Dietary fiber supplementation normalizes serum metabolites of adults with overweight/obesity in a 12 week randomized controlled trial. Experimental Biology, Chicago, IL, April 22-27, 2017.
112. Lourdes Rios J, Hart DA, **Reimer RA**, Seerattan RA, Herzog W (2017) Moderate exercise inhibits the development of knee OA-like changes in a rat model of diet-induced obesity. 4th Annual McCaig Meeting on Musculoskeletal Diseases. Calgary, AB, Canada.
113. Lourdes Rios J, Hart DA, **Reimer RA**, Seerattan RA, Herzog W (2017) Moderate exercise in parallel with high-fat high-sucrose diet inhibits the development of knee OA-like changes in a rat model of obesity. Osteoarthritis Research Society, San Diego, CA, March 19-22, 2017.
114. Collins KH, Hart DA, Seerattan RA, **Reimer RA**, Herzog W (2017) Diet-induced obesity and the development of hip and shoulder osteoarthritis: insights from a rat model. Osteoarthritis Research Society, San Diego, CA, March 19-22, 2017.
115. *Cho NA, *Klancic T, **Reimer RA** (2017) Maternal antibiotic consumption in Sprague-Dawley rats alters expression of neurotransmitters associated with reward-seeking behavior. Canadian Obesity Network – Calgary Chapter Research Showcase, Calgary, AB, February 8, 2017.
116. *Nettleton JE, *Cho NA, *Klancic T, *Nettleton JE, *Cho NA, *Klancic T, Shearer J, Borgland SL, **Reimer RA** (2017) Maternal aspartame consumption may impact body composition and metabolic health of mom and offspring. Canadian Obesity Network – Calgary Chapter Research Showcase, Calgary, AB, February 8, 2017.
117. *Mayengbam S, *Lambert JE, *Parnell JA, *Tunncliffe JM, Han J, Sturzenegger T, Vogel HJ, Shearer J, **Reimer RA** (2017) Effect of yellow pea fiber on fecal short-chain fatty acids and bile acids in adults with overweight/obesity: a 12 week randomized controlled trial. Canadian Obesity Network – Calgary Chapter Research Showcase, Calgary, AB, February 8, 2017.
118. *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. Canadian Obesity Network – Calgary Chapter Research Showcase, Calgary, AB, February 8, 2017.
119. *Paul HA, Urbanski S, *Nicolucci A, **Reimer RA** (2017) Maternal prebiotic intake elicits lasting effects on offspring gut microbiota and susceptibility to fatty liver. Canadian Obesity Network – Calgary Chapter Research Showcase, Calgary, AB, February 8, 2017.
120. Lourdes Rios J, Hart DA, **Reimer RA**, Seerattan RA, Herzog W (2017) Aerobic exercise inhibits the development of knee OA-like changes in a rat model of diet-induced obesity. Canadian Obesity Network – Calgary Chapter Research Showcase, Calgary, AB, February 8, 2017.
121. MacDonald GZ, Seerattan, RA, **Reimer RA**, Hart DA, Herzog W (2017) Skeletal muscle alterations resulting from childhood dietary-induced obesity. Canadian Obesity Network – Calgary Chapter Research Showcase, Calgary, AB, February 8, 2017.
122. Toomey CM, Whittaker JL, Nettel-Aguirre A, **Reimer RA**, Emery CA (2017) Higher abdominal fat in youth and young adults 3-10 years following a sport-related knee injury. Canadian Obesity Network – Calgary Chapter Research Showcase, Calgary, AB, February 8, 2017.

123. Willie C, Hoiland RL, Stenbridge M, Williams A, Fluck D, Gasho C, Subeji P, Anholm J, *Eller L, **Reimer R**, Macleod DB, Plato S, McBride E, Patrician A, Rieger MG, Ainslie P. (2017) 2016 UBC Nepal expedition: iron and the pulmonary vascular responses during ascent to 5050 m: Sherpa and lowlanders compared. International Hypoxia Symposium, Lake Louise, AB, Canada, February 7-12, 2017.
124. Stewart A, Doyle-Baker PK, **Reimer RA**, Vanderkooi OG (2016) Reductions in antibody production to the 2014/2015 seasonal influenza vaccine in highly active young men aged 18-35. Canadian Immunization Conference, Ottawa, Dec. 6-8, 2016.
125. Brand PH, Black AM, Palacios-Derflinger L, Emery CA, **Reimer RA**, Schneider KJ (2016) Nutritional Profile and Association of Omega-3 and Concussions in Adolescent Ice Hockey Players. Gairdner Symposium, Calgary, AB, Canada.
126. *Cho NA, *Klancic T, **Reimer RA** (2016) Maternal Low-Dose Antibiotic Consumption During Pregnancy and Lactation in Rats May Alter Behavior and Cognition in Dams and Their Offspring. Obesity Week Oct. 31-Nov. 4, 2016, New Orleans, LA.
127. *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.
128. *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.
- Winner of Ethan Sims Young Investigator Award***
129. *Bartel L, *Paul HA, **Reimer RA** (2016) Determining how mother's diet during pregnancy programs offspring obesity risk. Markin USRP Student Research Symposium, September 23, 2016, Calgary, AB.
130. *Johnston L, *Nettleton JE, **Reimer RA** (2016) Effect of aspartame and Stevia on gut microbiota of pregnant and lactating rats. ACHRI Summer Student Research Day, August 16, 2016, Calgary, AB.
131. *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
132. Toomey CM, Whittaker 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.
133. *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
- Graduate Student Award***
134. 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.
135. 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

136. 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.
137. 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.
138. **Reimer RA**, Willis HJ, *Tunncliffe 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
139. *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
140. *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
141. *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
142. *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.
143. 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.
144. 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.
145. *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.
146. *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. Cdn J Diabetes 39(Suppl 1):S22.
Winner of Maternal Infant Child & Youth Research Network Trainee Award.
147. *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.
148. *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.
149. *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.
150. *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
Emerging Leaders in Nutrition Science Poster Competition Finalist
Selected for News Release
151. *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)
152. 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.
153. *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.
154. *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.
155. *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.
156. 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.
157. *Chan K, *Paul HA, **Reimer RA** (2014) Mitigating "programmed" obesity risk in offspring with maternal prebiotic fibre supplementation. Student's Union Undergraduate Research Symposium, Nov. 27, 2014.
158. *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.
159. *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.

160. *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.
161. *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.
162. 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.
163. 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.
164. *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.
165. 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.
166. 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.
167. 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.
168. *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.
169. 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.
170. 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.
171. *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
172. *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.

173. *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.
174. *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.
175. *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**
176. *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**
177. **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
178. *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
179. *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
180. *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.**
181. *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
182. Cowan TE, Palmnas M, Ardell K, Yang J, **Reimer R**, Vogel H. (2013) M₁Ca 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
183. 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

184. 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.
185. *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.
186. 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.
187. 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.
188. *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.
189. *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.
190. *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
191. *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
192. *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
193. *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
194. 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
195. *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.
196. *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.
197. *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.

198. *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.
199. *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.
200. **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.
201. *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.
202. *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.
203. *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.
204. *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.
205. *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.
206. *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.
207. **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.
208. *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
209. *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.
210. *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.
211. *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.
212. *Dennison C, **Reimer RA** (2010) Gut Microbiota Alteration in Obesity and Insulin Resistance Management. Undergraduate Research Symposium, University of Calgary, Nov. 25, 2010.
 213. *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.
 214. *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.
 215. **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.
 216. *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.
 217. *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.
 218. *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.
 219. *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.
 220. *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.
 221. **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.
 222. 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.
 223. *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.

224. **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.
225. *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.
226. *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.
227. *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.
228. Tunnicliffe 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.
229. Tunnicliffe 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.
230. 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.
231. 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.
232. *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
233. *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.
234. *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.
235. 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.
236. *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.

237. 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.
238. *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.
239. **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.
240. *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.
241. *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.
242. *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.
243. *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.
244. *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.
245. *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***
246. *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.
247. 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.
248. *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
249. *Maurer A, **Reimer RA** (2005) Effect of Caloric Restriction on Intestinal Adaptation and Satiety Hormone Production in Rats. *FASEB J* 19:A5440 .
250. **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.
251. 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.
252. **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.
253. 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.
254. *Parnell JA, **Reimer RA**. Characterization of the Genetically Obese JCR:La-corpulent Rat Gut. *Biochemistry and Molecular Biology Retreat, Banff*. October 26-27, 2004.
255. 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.
256. **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.
257. **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.
258. 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.
259. **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
260. **Reimer RA**, Lee K (2002) Survey of transcriptional changes with meat hydrolysate in NCI-H716 enteroendocrine cells. *FASEB J* 16:C163
261. **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
262. **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
263. **Reimer RA**, Pfeifer A, Macé KA (1999) Effect of SCFA on lipogenesis in a new human hepatocyte cell line. *FASEB Journal* 13:A926
264. 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*
265. **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
266. 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

267. **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
268. **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
269. **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
270. **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
271. **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
272. 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
273. **Reimer RA**, McBurney MI (1994) Dietary fiber intake regulates intestinal glucagon gene expression in rats. *Canadian Federation of Biological Societies* 37:A177
Gold Medal Mary Ecclestone Graduate Student Award.

PATENTS AND LICENSES:

1. Pea fibre supplementation for obesity and metabolic syndrome
License (through Innovate Calgary)
Principal inventor: Raylene A. Reimer
Joint inventors: *Jennifer Vena, *Jasmine Tunnicliffe, *Jill Parnell
2. "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: Société des Produits Nestlé
3. "Treatment of Diabetes with Milk-Protein Hydrolysate"
US2003004095 A1
Principal Inventor: Raylene A. Reimer
Joint Inventors: K. Macé, C. Darimont, J.-R. Neeser
Applicant: Société des Produits Nestlé
4. "Treatment of Diabetes with Milk-Protein Hydrolysate"
US7585618 18B2
Principal Inventor: Raylene A. Reimer
Joint Inventors: K. Macé, C. Darimont, J.-R. Neeser
Applicant: Société des Produits Nestlé

SCIENTIFIC INVITED TALKS:

1. UBCO Diabetes & Obesity Research Day
Kelowna, BC June 12, 2024
“Nourishing your gut microbiome to tackle diabetes”
Keynote Lecture
2. Cleveland Clinic
Cleveland, Ohio June 6, 2024
“Non-nutritive sweeteners, gut microbiome, and diabetes risk”
3. McFarlane Diabetes Symposium
Calgary, AB October 12, 2023
“Nutrition and diabetes: prevention and intervention”
4. Webinar: Beneo-Institute
“Prebiotics and gut microbiota: establishing a healthy trajectory from early life to adulthood”
September 20, 2023
5. Today’s Dietitian Spring Symposium
Savannah, Georgia May 15, 2023
“Prebiotics and gut microbiota: establishing a healthy trajectory from early life to adulthood”
6. Children’s Hospital Research Institute of Manitoba
Winnipeg, MB March 16, 2023
“Early life nutrition and the gut microbiome: establishing a healthy trajectory”
7. Canadian Centre for Agri-Food Research in Health and Medicine
Winnipeg, MB January 30, 2023
“The lasting impact of parents diet and the fascinating gut microbiome”
8. Wood Forum
Calgary, AB October 29, 2022
“A gut feeling: how improving your gut health with diet can affect your osteoarthritis”
9. Canadian Nutrition Society Annual Conference
Gatineau, QC May 7, 2022
“The intergenerational effects of paternal nutrition: father’s diet matter too”
10. Institute for Personalized Therapeutic Nutrition
Webinar April 20, 2022
“The microbiome and chronic disease: possible targets and therapeutic potential”
11. Canadian Nutrition Society Annual Conference
Edmonton, AB April 30, 2021 (postponed from 2020)
“Role of prebiotics in chronic disease management”

12. Obesity Prevention and Management – Calgary Family Medicine Residents
Calgary, AB March 12, 2020
“Role of gut microbiota in the pathogenesis and management of obesity”
13. Weston Family Foundation Board Meeting
Virtual presentation November 17, 2020
“Harnessing the power of the gut microbiota through diet”
14. Child Health Research Rounds
Calgary, AB March 5, 2020
“The role of early-life gut microbiota in programming chronic disease risk”
15. Canadian Museum of Nature
Ottawa, ON February 6, 2020
“Nutrition for you and trillions of your closest friends: effect of diet on your gut microbiota”
16. Food & Nutrition Conference & Expo
Philadelphia, PA October 26, 2019
“Prebiotics and gut microbiota: how they work together to affect metabolic health”
Keynote lecture
17. Cal Wenzel Family Foundation
Calgary, AB September 11, 2019
“Gut Microbiome and Diabetes”
18. Family Medicine Residents Obesity Session
Calgary, AB May 23, 2019
“Obesity and gut microbiota”
19. International Scientific Association for Probiotics and Prebiotics Consensus Meeting
Antwerp, Belgium May 13, 2019
“Health benefits of synbiotics”
20. Human Performance Laboratory
Calgary, AB April 1, 2019
“Gut microbiota in health and disease”
21. 7th Conference on Recent Advances in the Prevention and Treatment of Childhood and Adolescent Obesity
Calgary, AB October 26, 2018
“Gut microbiota: do they have a role to play in preventing and treating pediatric obesity”
Plenary lecture
22. BioRad Laboratories Inc. Scientific Advisory Board Meeting
Concord, CA August 14, 2018

“Dysbiosis, obesity and metabolic disease”

23. BioRad Laboratories Inc.
Hercules, CA June 13, 2018
“Gut microbiota: role in health and disease”
24. BioRad Laboratories Inc.
Hercules, CA June 13, 2018
“New developments in gut microbiota and metabolic disease”
25. Dietary Fiber Conference
Rotterdam, NL June 4, 2018
“Prebiotics: Potential for managing overweight and obesity in children”
Keynote lecture
26. Mini-Med School
Calgary, AB April 9, 2018
“The sweet truth about gut microbiota and diabetes”
27. Microbiome Symposium
Edmonton, AB March 28, 2018
“Using diet to manipulate gut microbiota in obesity”
28. Food & Nutrition Conference and Expo
Chicago, IL October 22, 2017
“Can your gut microbiota help you eat less and improve your metabolism? Why chicory root prebiotics fibers are important in the fight against obesity”
29. Kinesiology Graduate Students Association Lunch and Learn
September 19, 2017
“Success with scholarships and grant applications”
30. Research Theme Seminars
Calgary, AB June 29, 2017
“Diet and your gut microbiota: impact on health and disease”
31. Nestle Research Centre
Lausanne, Switzerland May 3, 2017
“Obesity and fatty liver disease: new hope for therapies based on diet and gut microbiota”
32. Université Catholique de Louvain
Brussels, Belgium April 25, 2017
“Manipulating the gut microbiota across the lifespan: impact on chronic disease”
33. Bio-Rad Laboratories Inc.
Hercules, CA March 15, 2017

“Metabolic disease and the gut microbiome”

34. International Scientific Association for Probiotics and Prebiotics Consensus Meeting
London, England December 9, 2016
“Health benefits of prebiotics”
35. Alberta Children’s Hospital Symposium
Calgary, AB April 27, 2016
“A gut feeling: how diet affects the gut microbiota – brain axis”
36. Gairdner Symposium
Calgary, AB November 10, 2015
“Shaping the gut microbiome: the role of diet and chronic disease development”
Keynote lecture
37. Family Medicine Residents
Calgary, AB September 24, 2015 and October 1, 2015
“Debunking popular diets”
38. International Symposium on Diabetes and Nutrition
Toronto, ON June 12, 2015
“Metabolic benefits of prebiotic fibre”
39. Grad Success Week
Calgary, AB May 5, 2015
“Writing for and speaking to non-academic audiences about research”
40. 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”
41. Alberta Innovates Bio Solutions Impact Innovation
Edmonton, AB, May 7, 2014
“Changing biology one cookie at a time”
42. Alberta Children’s Hospital Research Institute Symposium
Calgary, AB, April 9, 2014
“Early nutrition and your lifelong condition”
43. Vahouny Dietary Fiber Symposium
Bethesda, MD, March 26-28, 2014
“Prebiotic fibres and energy intake: implications for managing body weight”
44. Roger Jackson Centre for Health and Wellness Research
Calgary, AB, March 3, 2014

“Insights into the regulation of body weight”

45. Café Scientifique
Calgary, AB, November 14, 2013
“Nutrition and Kidney Health”
46. International Congress of Nutrition
Granada, Spain September 18, 2013
“Prebiotic fibers and weight management”
47. International Congress of Nutrition
Granada, Spain September 19, 2013
“Role of prebiotics in regulating energy intake and body weight”
48. International Scientific Association for Probiotics and Prebiotics
Cork, Ireland October 2, 2012
“Extra-intestinal effects of prebiotics”
49. General Mills Inc.
Minneapolis, MN August 21, 2012
“Dietary Fiber: Benefits for Weight Management and Metabolic Disease”
50. Alberta Innovates Heritage Summer Teachers Workshop
Calgary, AB July 17, 2012
“Managing obesity: the role of dietary fiber and gut bacteria”
51. 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”.
52. 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”
53. 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”
54. Nutrition Support Day Dietitians of Canada
Calgary, AB April 28, 2012
“Reducing the burden of obesity: a role for nutrition therapy”

55. BENEIO Symposium 2012
Heidelberg, Germany, March 12-13, 2012
“Functional carbohydrates and prebiotic fibres: Prebiotic fibers and weight management”
56. The Kinesiology Colloquium
University of Calgary, April 1, April 1, 2011
“Healthy Living Across the Lifespan”
57. Liver Group Rounds
Teaching, Research & Wellness Building, Feb. 14, 2011
“Potential for Prebiotic Fiber in Non-Alcoholic Steatohepatitis”
58. International Scientific Association for Probiotics and Prebiotics
Newport Beach, CA, USA, November 4, 2009
“Prebiotics: Evidence, Mechanisms, and Technologies”
59. Nestle Research Centre
Lausanne, Switzerland, August 26, 2009
“Dietary Interventions that Regulate Satiety Hormones: Implications for Obesity and Type 2 Diabetes “
60. Child Health Research Group
Alberta Children’s Hospital, Calgary, AB, March 17, 2009
“Early Diet Programs Susceptibility to Obesity in Adulthood”
61. 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”
62. Women Scholars Invited Lecture Series
University of Lethbridge, Lethbridge, AB, January 30, 2009
“Weighing In” on Effective Nutritional Strategies for Obesity & Type 2 Diabetes
63. Behavioural Neurosciences Research Group
University of Calgary, April 8, 2008
“Obesity: Is it all just a gut reaction?”
64. Alberta Canadian Obesity Network – Student & New Professional Research Day
University of Calgary March 20, 2008
“Diet and the Gut: 2 Centres of the Universe”
65. Nutrition File 2008
Edmonton, AB (February 12th) and Calgary, AB (February 13th, 2008)
“Pre- and Probiotics: The Overview

66. Nestle Nutrition Seminars
Foothills Hospital, Calgary and 25 Telehealth sites from Alberta, Saskatchewan and Manitoba
November 28, 2007
“Pre- and Probiotics”
67. Nestle Nutrition Presents: Topics in Nutrition Support 2007
Vancouver, BC October 27, 2007
“Pre- and Probiotics: Body Armor Against Sick Days”
Keynote lecture
68. Western Obesity Summit
Kananaskis, AB May 6-8, 2007
“Nutritional regulation of gut hormone synthesis and release”
69. University of Alberta Nutrition Seminars
Edmonton, AB March 27, 2007
“Promising dietary interventions that regulate gut satiety hormones and bridle food intake”
70. University of Calgary Mini-Med School
Calgary, AB November 2, 2005
“Nutrition and Diet”
71. Grand Rounds Alberta Children’s Hospital
Calgary, AB, March 23, 2005
“Pre- and Probiotics in Clinical Practice”
72. Northeast Pediatric Gastroenterology and Nutrition Conference
Magog, Quebec October 2, 2004
“Pre- and Probiotics: What’s In It For Our Patients?”
73. Canadian Society for Intestinal Research
Vancouver, BC April 17, 2004
“Pre- and Probiotics: The Battle of the Bugs”
74. Behavioural Neurosciences Research Group
University of Calgary, December 9, 2003
“Regulators of appetite and food intake”
75. Nestle Nutrition Seminars
Vancouver, BC March 12-13, 2003
“Pre and Probiotics: Old Bugs, New Science”
76. 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”

77. Canadian Diabetes Association Professional Conference
Edmonton, AB October 17-20, 2001
“The DASH Diet: Implications for Persons with Diabetes”
78. 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”
79. Canadian Federation of Biological Sciences
Skeletal Muscle Metabolism Workshop
London, ON June 1996
“GLP-1 Inhibits Glucose Uptake in Skeletal Muscle from Rats In Vitro”

TECHNICAL RECORDINGS:

Podcast

“What do prebiotics do?”

Recorded November 29, 2023 for The Allsorts Podcast hosted by Desiree Nielsen

[live on website](#)

[Apple Podcasts](#)

[Spotify](#)

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:

Undergraduate Courses

1. KNES 237 Introduction to Nutrition (Sole Instructor; 2002 onwards)
Enrolment (250 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: 6.4 out of 7.
2. KNES 437 Advanced Nutrition (Sole Instructor; 2004 onwards)
Enrolment (60 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: 6.7 out of 7.
3. KNES 490 Honour’s Program: Interpretation of Research and Research Project
Research project supervisor (typically 1 student per year)

4. KNES 593.39 Practicum
Practicum supervisor (1-2 students/year). Undergraduate research practicum placements ranging from assisting in clinical trials to surgical procedures in rodent models. (2007 onwards)
5. CMMB565 (Cellular and Microbial Biology) Advanced Topics in Microbial Pathogenesis and the Microbiome – Guest lecture (2019, 2020)
6. CMMB 528 (Cellular, Molecular and Microbial Biology) Independent Research Project Course Supervisor (1 student 2016-2017)
7. MDSC 507 Special Problems in Medical Science: Topics in Obesity Research
Independent study sole instructor (Enrolment 1 student; 2009, 2010)
8. KNES 503.37 Special topics in Kinesiology: Nutrition in Chronic Disease
Independent study sole instructor (Enrolment 1 student; 2002, 2004, 2005)
9. Medicine 302 Principles for Medicine - Guest lecture on nutrition and weight management for the University of Calgary Medical School (2001, 2002, 2003, 2004).
10. DNCE 203 Dancing: Body, Mind and Culture - Guest lecture on nutrition (2000, 2001, 2002)
11. 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 in 2001-2013; 1-2 students/year after the addition of KNES 605). 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 (10-12 students/year). This course is part of the MKin course-based Masters 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:

Note: All trainees listed below under postdoctoral, graduate students, and undergraduate student headings are denoted with an asterisk.

Primary Supervisor: Postdoctoral

Elnaz Vaghef Mehrabani, Postdoctoral Fellow (01/2024 – present) CIHR Postdoctoral Fellowship

Niki Cho, Postdoctoral Fellow (01/2022 – 05/2023)

Weilan Wang, Postdoctoral Fellow (09/2019 – 09/2022) Eyes High Postdoctoral Fellowship

Erin Noye Tuplin, Postdoctoral Fellow (01/2019 – present) Alberta Innovates Postdoctoral Fellowship; Alberta Children’s Hospital Research Institute Fellowship

Rafael Fortuna, Postdoctoral Fellow (10/2017 – 10/2021), Alberta Innovates Postdoctoral Fellowship; Cy Frank Trainee Award

Shyam Mayengbam, Postdoctoral Fellow (02/2016 – 07/2020) Alberta Innovates Postdoctoral Fellowship; Eye’s High Postdoctoral Fellowship

Dolan Saha, Postdoctoral Fellow (02/2010 – 10/2015) Alberta Innovates Postdoctoral Fellowship; Alberta Children’s Hospital Research Institute Training Grant Fellowship

Jennifer Lambert, Postdoctoral Fellow (09/2013 – 06/2015) CIHR Postdoctoral Fellowship; Eye’s High Postdoctoral Fellowship

Raj Akilen, Postdoctoral Fellow (10/2012 – 12/2012 – resigned due to illness)

Nina Cluny, Postdoctoral Fellow (Co-supervisor, 04/2011 – 04/2015) Alberta Innovates Health Solutions Fellowship

Lindsay Eller, Postdoctoral Fellow (05/2010 – 05/2012)

Qixuan Chen, Postdoctoral Fellow (09/2004-02/2006)

Primary Supervisor: Graduate

Briana Toews, MSc student (09/2023 – present), NSERC CREATE Scholarship, Vera Ross Scholarship

Erin Calaine Inglis, PhD student (Co-Supervisor: 05/2023 – 06/2023)

Melissa Biddle, MSc student (09/2022 – present) CIHR Graduate Scholarship – Masters; Rebecca Holmes Memorial Master’s Scholarship

Gabriel Venegas Silva, MSc student (05/2022 – present) Alberta Graduate Excellence Scholarship

Riley Patterson, MSc student (09/2021 – 11/2023) Alberta Graduate Excellence Scholarship

Dana Lowry, PhD student (09/2019 – present) **3 Minute Thesis Competition Winner (UCalgary), 2nd Place Winner Western Regionals 3 Minute Thesis Competition, Killam Doctoral Scholarship, Alberta Children’s Hospital Research Institute; University of Calgary Silver Anniversary Graduate Fellowship; JB Hyne Graduate Scholarship; Kinesiology**

Leadership Scholarship; Donald N. Byers Memorial Killam Scholar Prize for Best Statement of Program of Studies and Research

Kate Sales, PhD student (09/2019 – present) MITACS Award, Kinesiology Leadership Scholarship

Kara Sampsell, MSc student (09/2019 – 12/2021) Alberta Graduate Excellence Scholarship

Fatima Chleilat, PhD student (09/2016 – 01/2021) Dean’s Doctoral Scholarship; Alberta Children’s Hospital Research Institute Scholarship

Emily Macphail, PhD student Co-Supervisor (05/2016 – withdrew 2023) Mathison Centre Graduate Studentship, Ferring Studentship Award; Michael Lazar Community Service Award; Harley N. Hotchkiss Doctoral Scholarship in Neuroscience

Nicole Cho, PhD student (09/2015 – 09/2021) Alberta Children’s Hospital Research Institute Scholarship, Alberta Children’s Hospital Research Institute Trainee Research Visit Award, Queen Elizabeth II Scholarship, Vera Ross Graduate Scholarship

Teja Klancic, PhD student (01/2015 – 09/2019) Vanier Scholar; Alberta Innovates Health Solutions Studentship; Eye’s High Doctoral Scholar

Jodi Nettleton, PhD student (08/2014 – 06/2019) CIHR Masters Scholarship, Alberta Children’s Hospital Research Institute -CIHR Graduate Training Studentship, Alberta Graduate Student Scholarship

Heather Paul, PhD (01-2012 – 11/2017) CIHR Doctoral Scholarship; Alberta Innovates Health Solutions Studentship; NSERC Studentship

Danielle Reid, PhD (Co-supervisor, 05/2011 – 08/2016) NSERC Doctoral Studentship

Marc Bomhof, PhD (09/2010 – 05/2016) NSERC and Alberta Innovates Studentships; Izaak Walton Killam 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

Carol Dennison, MSc (09/2011 – 09/11/2013) CIHR Training Scholarship

Erik Groves, PhD (Co-supervisor, 01/2012 – 06/2012)

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/Canadian Diabetes Association 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

Jessica Teasdale, Undergraduate Practicum Student (01/2024 – 04/2024)

Kate Kang, Undergraduate Honours Student (09/2023 – 04/2024)

Simar Gill, Undergraduate Practicum Student (09/2023 – 12/2023)

Sanjana Solomon, Undergraduate Practicum Student (09/2023 – 12/2023)

Micallee Chow, Undergraduate Summer Research Student (05/2023 – 08/2023) Alberta Innovates Summer Research Studentship

Vibha Kumar, Undergraduate Summer Research Student (05/2023 – 08/2023) ACHRI Summer Studentship

Jolene Phan, Undergraduate Research Volunteer (02/2023 – 04/2023)

Tyra Fernandes, Undergraduate Honours Thesis Supervisor (09/2022 – 04/2023)

Kate Hu, Undergraduate Research Volunteer (07/2022 – 08/2022)

Tyra Fernandes, Undergraduate Summer Research Student (05/2022 – 08/2022) NSERC USRA

Tyra Fernandes, Undergraduate Summer Research Student (05/2021 – 08/2021) NSERC USRA

Erna Alukic, Undergraduate Honours Thesis (09/2020 – 04/2021)

Alyssa Wilkins, PURE Summer Student (05/2020 – 08/2020); Declined NSERC USRA.

Erna Alukic, NSERC Summer USRA (04/2019 – 08/2019)

Kyle Ma, NSERC Summer USRA (04/2019 – 08/2019)

Janelle Wai, Undergraduate Markin USRP Student (09/2018 – 04/2019)

Kyle Exner, Undergraduate Honours Thesis (09/2018 – 04/2019)

Karys Hildebrand, Undergraduate Honours Thesis Co-Supervisor (09/2018 – 04/2019)

Jolene Wong, NSERC Summer Research Student (05/2018 – 08/2018)

Kyle Ma, Undergraduate Summer Student (05/2018 – 08/2018)

Ashley Choo, NSERC Summer Research Student (05/2016 – 08/2016); BSc Honours Student (09/2016 – 04/2017)

Lance Bartel, PURE and USRP Summer Studentship (05/2016 – 08/2016)

Leah Johnston, Undergraduate Summer Student (05/2016 – 08/2016) ACHRI Summer Studentship

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 Honours Thesis Research (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)

Kennedy 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 Honours Thesis Research (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 Honours 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 Honours 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, Honours Research Thesis (09/2001-04/2002)

Supervisory Committee Member:

Mahir Rahman, MSc (01/2024 – present)
Amy Shupe, MSc (10/2023 – present)
Anika Mamun, MSc (03/2023 – present)
Mauricio Delgado, PhD (03/2023 – present)
Darsh Tripathi, MSc (03/2023 – present)
Spencer Abbott, MSc (09/2022 – present)
Ian Han, MSc (06/2022 – present)
Hannah Smith, MSc (12/2021 – present)
Mackenzie Gutierrez, MSc (07/2020 – present)
Mason Stothart, PhD (03/2019 – 09/2023)
Shrushti Shah, PhD (01/2019 – present)
Michelle Aktary, PhD (09/2018 – present)
Angela Pochakom, MSc (02/2021 – 06/2022)
Faizan Malik, MSc (01/2018 – 08/2022)
Robyn Madden, PhD (10/2017 – 05/2022)
Julie Deleemans, PhD (09/2017 – 04/2022)
Colton Quinn, MSc (09/2019 – 11/2021)
Jenine Yee, MSc (10/2018 – 09/2021)
Kevin Boldt, PhD (02/2017 – 11/2020)
Graham MacDonald, PhD (05/2015 – 05/2020)
Malcolm Eaton, PhD (09/2015 – 05/2020)
Rogerio Soares, PhD (09/2015 – 09/2019)
Jacqueline Rios, PhD (09/2015 – 08/2019)
Mitchell George, MSc (09/2015 – 08/2017)
Heidi Virtanen, MSc (04/2015 – 01/2017)
Andrew Stewart, MSc (02/2014 – 01/20/2016)
Chris Newell, PhD (09/12 – 09/2015)
Jason Mysliki, MSc (09/12 – 04/2014)
Colin Hyslop, MSc (10/2012 – 08/2014)
Kelsey Collins, PhD (10/2012 – 06/2017)
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:

Hannah Smith, MSc Defense (15/01/2024)
Kristen Fleet, PhD – External Examiner University of Manitoba (19/01/2024)
Riley Patterson, MSc Defense (10/11/2023)
Mason Stothart, PhD Defense (05/09/2023)
Erin Calaine Inglis, PhD Defense (06/06/2023)
Elene Fekete, PhD Defense (15/09/2022)
Faizan Malik, MSc Defense (02/08/2022)
Kate Sales, PhD Field of Study (28/06/2022)
Angela Pochakom, MSc Defense (08/06/2022)
Michelle Aktary, PhD Field of Study (26/05/2022)
Robyn Madden, PhD Defense (16/05/2022)
Julie Deleemans, PhD Defense (19/04/2022)
Emily Mercer, PhD Field of Study (09/03/2022)
Kara Sampsell, MSc Defense (15/12/2021)
Emily Mercer, PhD Thesis Proposal Defense (03/12/2021)
Nicole Cho, PhD Defense (15/09/2021)
Jumana Samara, MSc Defense (07/09/2021)
Jenine Yee, MSc Defense (02/09/2021)
Nada Abughazelah, PhD Field of Study Phase II (23/06/2021)
Shrushti Shah, PhD Candidacy (22/06/2021)
Nada Abughazelah, PhD Field of Study Phase I (06/04/2021)
Fatima Chleilat, PhD Defense (21/01/2021)
M. Carolina Archundia Herrera – External Examiner University of Alberta (11/12/2020)
Mason Stothart, PhD Candidacy (09/11/2020)
Kevin Boldt, PhD Defense (13/11/2020)
Anna Mikolajczak, MSc Defense (09/09/2020)
Renee Kokts-Porietis, MSc Defense (21/07/2020)
Malcolm Eaton, PhD Defense (28/05/2020)
Teja Klancic, PhD Defense (13/09/2019)
Rogerio Soares, PhD Defense (03/09/2019)
Jaqueline Rios, PhD Defense (27/08/2019)
Jodi Nettleton, PhD Defense (21/06/2019)
Maryam Kebbe, PhD Defense – External Examiner University of Alberta (18/06/2019)
Katherine Schwenger, PhD Defense – External Examiner University of Toronto (24/05/2018)
Russell Avarmenko, PhD Defense (20/12/2017)

Malcolm Eaton, PhD Candidacy (06/12/2017)
Christopher Villa, PhD Defense – External Examiner University of Toronto (04/12/2017)
Heather Paul, PhD Defense (29/11/2017)
Rogerio Soares, PhD Candidacy (31/10/2017)
Mitchell George, MSc Defense (29/08/2017)
Alexis Mickle, MSc Defense (18/07/2017)
Kelsey Collins, PhD Defense (05/06/2017)
Teja Klancic, PhD Candidacy (19/04/2017)
Heidi Virtanen, MSc Defense (31/01/2017)
Aleida Song, PhD Defense – External Examiner University of Alberta (11/01/2017)
Graham MacDonald, PhD Candidacy (6/12/2016)
Jodi Nettleton, PhD Candidacy (26/08/2016)
Danielle Reid, PhD Defense (24/08/2016)
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)
Megan Hume, MSc Defense (09/03/2015)
Alissa Nicolucci, MSc Defense (09/01/2015)
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 Wamstecker-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, MSc 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:

Daniel Hodgson, PhD Candidacy (14/06/2023)
Zachary Barron, PhD Defense (27/02/2023)
Vanessa Pagalione, MSc Defense (14/06/2022)

Natalie Yeung, MSc Defense (30/08/2021)
Jessica Youngblood, MSc Defense (29/06/2021)
Andrew Pohl, PhD Field of Study (09/02/2021)
Roger Jaswal, MSc Defense (17/12/2019)
Janet Wong, MSc Defense (15/07/2019)
Alexandre Campelo, PhD Candidacy (2/2/2018)
Seong-Won Han, PhD Candidacy (16/10/2017)
Christiane Job, PhD Defense (30/11/2015)
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)

Mentor:

Assistant Professor: Dr. Kathryn Schneider
Assistant Professor: Dr. Ryan Peters
Assistant Professor: Dr. Leah Gabel
Assistant Professor: Dr. Cindy Barha

Postdoctoral Fellow (Banting Application): Dr. Aline Ignacio
Postdoctoral Fellow (Banting Application): Dr. Karen Lithgow
Postdoctoral Fellow (Banting Application): Dr. Shirin Moossavi
Postdoctoral Fellow (Banting Application): Dr. Marcel van de Wouw
Postdoctoral Fellow (Banting Application): Dr. Monica Caicedo-Roa

UNIVERSITY SERVICE:

Committee Membership

Faculty of Kinesiology:

Faculty of Kinesiology Search & Selection Committee – Exercise Physiology (January 2024)
Snyder Advisory Committee, Member (September 2023 – present)
Research Excellence Chair Selection Committee (Kinesiology) April 2023
Research Committee, Member (July 2021 – June 2024)
Faculty of Kinesiology Search & Selection Committee – Growth & Development (June 2021)
Faculty of Kinesiology Search & Selection Committee – Spousal Hire (March 2021)
Kinesiology Curriculum Review Committee (February 2019 – March 2020)
Strategic Research and Innovation Committee, Chair (July 2018 – June 2021)
Faculty Tenure and Promotion Committee (December 2017)
Faculty Merit Committee (October 2017)
Graduate Program Coordinator Recruitment Committee (January 2016)
Benno Nigg Chair Search and Selection Committee (2015 – 2022)

Faculty of Kinesiology Strategic Research and Innovation Committee, Member (September 2013 – August 2014; 2017 – 2018)
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 Search & Selection Committee – Concussion (May – June 2013)
Chair, Faculty of Kinesiology Search & Selection Committee – Exercise Physiology Position (April 2012 – January 2013)
Faculty of Kinesiology Search & 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 Search & Selection Committee (June – October 2006)
Faculty of Kinesiology Search & 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

Chair, Biosafety Committee (January 1, 2023 – present)
Member, UCARE Executive Committee (January 1, 2023 – present)
Chair, Infections, Inflammation and Chronic Disease (IICD) Education Committee (2020 – 2023)
General Faculties Council (GFC) Research Scholarship Committee (July 2022 – present)
Search and Selection Committee, Academic Director for the Centre for Health Policy (December 2022 – February 2023)
Life Sciences Research Centre User Committee (May 2020 – May 2022)
Department of Medicine Search & Selection Committee (December 2021)
Department of Community Health Sciences Search & Selection Committee – Spousal Hire (April 2021)
New Frontiers Research Fund Transformation Internal Review (February –March 2021)
International Review – Energy Research Strategy, Internal Reviewer (October – November 2019)
Margaret Gunn Endowment for Animal Research Awards Committee (2019, 2020, 2021)
Hotchkiss Brain Institute Postdoctoral Fellowship Review Committee (March-April 2019)
Decanal Review Committee, Dean of the Faculty of Science (February – March 2019)
Research Management System (RMS) Steering Committee (October 2018 – July 2019)
General Faculties Council – Research and Scholarship Committee (July 2018 – July 2019)

Research Awards Working Committee (July 2018 – June 2021)
PURE (Program for Undergraduate Research Experience) Coordinator (July 2018 – June 2021)
Banting Postdoctoral Review Committee (April 2018 – October 2021)
Biosafety Committee Member (December 2017 – December 2022)
Search and Selection Committee, Faculty of Veterinary Medicine (September – November 2017)
Infections, Inflammation & Chronic Disease Education Committee (June 2017 – June 2020)
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 – 04/2015)
Brenda Stafford 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:

Grant Review

Canadian:

Mitacs Accelerate: External Reviewer (July 2021)

New Frontiers in Research Fund – Exploration (November – December 2020)
CIHR College of Reviewers (July 2017 – July 2020; September 2021 - present)
CIHR Banting Postdoctoral Fellowships Selection Committee (2017-2020)
CIHR Operating Grants [Nutrition, Food & Health Peer Review Committee (Chair: 2015;
Scientific Officer: 2012 (2 competitions); Member: 2008, 2009, 2013)]
CIHR International Opportunities Grants: External Reviewer
NSERC Discovery Grants: External Reviewer (ongoing)
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
Canadian Liver Foundation: 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: External Reviewer
Ontario Ministry of Agriculture, Food and Rural Affairs/University of Guelph: External
Reviewer
Agriculture and Agri-Food Canada (AAFC) Science and Technology Branch: External Reviewer

International:

Graduate Women in Science National Fellowship Program: External reviewer (March – April
2021)
Harold Hamm Diabetes Center Grant Program: External reviewer
Dutch Research Council (NWO): External reviewer
The Fund for Scientific Research – FNRS Belgium: External reviewer
Medical Research Council United Kingdom: External Reviewer
Leuven Research Council (Belgium): External Reviewer
Swiss National Science Foundation: External Reviewer

Manuscript Review

American Journal of Clinical Nutrition
American Journal of Physiology – Endocrinology and Metabolism
American Journal of Physiology – Gastrointestinal and Liver Physiology
Anaerobe
Animal Microbiome
Appetite
Applied Physiology, Nutrition and Metabolism
Biometals
BMC Pregnancy and Childbirth
British Journal of Nutrition
British Journal of Pharmacology
British Medical Journal
BMJ Open
Brain Behavior and Immunity

Canadian Journal of Diabetes
Canadian Journal of Physiology and Pharmacology
Cell Metabolism
Cell Reports
Clinical and Investigative Medicine
Clinical Journal of Sport Medicine
Clinical Nutrition
Critical Reviews in Food Science and Nutrition
Current Developments in Nutrition
Diabetes, Obesity and Metabolism
Diabetologia
Endocrine
Endocrinology
Experimental Physiology
Food & Function
Frontiers in Endocrinology
Frontiers in Microbiology
Frontiers in Nutrition
Gastroenterology
Gut
International Immunopharmacology
Journal of Aging and Physical Activity
Journal of Food and Nutrition Research
Journal of Nutrition
Journal of Nutritional Biochemistry
Journal of Nutritional Science
Microbiome
Molecular Nutrition & Food Research
Nature Communications
Nature Reviews Endocrinology
Nature Reviews Gastroenterology and Hepatology
Neuroscience & Biobehavioral Reviews
Nutrients
Nutrition & Metabolism
Nutrition, Metabolism & Cardiovascular Disease
Nutrition Research Reviews
Obesity Research & Clinical Practice
Obesity Reviews
Pediatric Obesity
Physiology and Behavior
PLoS One
Public Health Nutrition
Regulatory Peptides

Professional Committees/Conference Organization

Symposium Organizer & Chair: Canadian Nutrition Society Conference May 2-4, 2024
Reviewer: Canadian Nutrition Society Conference Abstract Review (February 2023, 32 abstracts)
Reviewer: Canadian Nutrition Society Postdoctoral Award (February 2023, 3 applications)
Reviewer: Canadian Nutrition Society Young Investigator Award for Outstanding Research (March 2021, 2 applications)
Reviewer: Canadian Nutrition Society Young Investigator Award for Outstanding Research (March 2020, 2 applications)
Reviewer: Canadian Nutrition Society Trainee Travel Award (February 2020, 19 applications)
Committee Member: Canadian Nutrition Society Awards Committee (August 2019 – present)
Advisor: Canadian Nutrition Society-University of Calgary Faculty Advisor (10/2017 – present)
National Exhibit Planning Committee: Canadian Museum of Nature Microbiome Exhibit (2019 – 2020)
Data Monitoring Committee: FMT in Major Depression (2019 – present)
Member: Organizing Committee, Canada's Food Guide and a Healthier Canada Through Effective Nutrition Policy Conference (2018)
Member: Organizing Committee, 2018 Conference on Recent Advances in Preventing and Managing Child and Adolescent Obesity (2017-2018)
Reviewer: Canadian Nutrition Society 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 (2014-2020)
Reviewer: Canadian Nutrition Society PhD Dissertation Award (March 2015)
Abstract Reviewer: Canadian Obesity Summit 2015 Meeting
Evaluator: Ernest C. Manning Innovation Awards (2014, 2008)
Reviewer: Canadian Nutrition Society PhD Dissertation Award (April 2012)
Reviewer: National Obesity Summit Abstracts (January 2011)
Reviewer: 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: Alberta Children's Hospital Research Institute Small Grants (7 applications November 2021)
Reviewer: Scientific Merit Animal Care Committee (1 application June 2021)
Reviewer: Child Health & Wellness Grand Challenge Catalyst Grant (4 applications February 2021)

Reviewer: NFRF Internal Multidisciplinary Review Committee (1 application March 2021)
Adjudicator: PURE Undergraduate Research Awards (7 applications) 2021
Consultation: USRI re-development session – June 30, 2020
Reviewer: Allied Health and Shaikh Family Research Awards (4 applications) March 2020
Adjudicator: PURE Undergraduate Research Awards (10 applications) 2020
Interim Director: Human Performance Lab (January – December 2020)
Acting Dean Faculty of Kinesiology (September 24 – October 7, 2019; March 17-24, 2020)
Adjudicator: PURE Undergraduate Research Awards (8 applications), 2019
Judge: Alberta Children’s Hospital Research Institute Graduate Student Poster Competition, ACHRI Symposium, May 16, 2018
Reviewer: Alberta Children’s Hospital Research Institute Graduate and Postdoctoral Fellow Scholarship Committee, 2016
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)
Adjudicator: 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
Adjudicator: PURE Undergraduate Research Awards, April 2012

International Visiting Scientist

Dr. Andreina Bruno, Italian National Research Council, Palermo, Italy (February – May 2023)
Dr. Heiliane de Brito Fontana, Universidade Federal de Santa Catarina, Brazil (March – August 2021)

PROFESSIONAL DEVELOPMENT:

1. Online workshop: Introduction to R for Biologists. April 21 & 22, 2022
2. Online workshop: Creating online quizzes. July 2, 2020
3. Online workshop: What to do on the First Day of Your Online Class. August 26, 2020
4. Online workshop: Promoting Engagement and Active Learning in Online Discussion Boards. August 27, 2020

COMMUNITY ENGAGEMENT:

1. Alumni All-Access Event Station Leader: Developed and hosted an interactive station on nutrition and the gut microbiome for UCalgary alumni and their families. Calgary, October 21, 2023
2. Open House Station Leader: Human Performance Lab High School Open House interactive station; “How to build a healthy gut”. May 10, 2023
3. Grade school interview “How sugary foods impact how a person feels” May 2, 2023.
4. Moderator: Community lectures “The world at war with a virus: the science behind the headlines” January 7, January 21, January 28 and February 11, 2021
5. Guest lecture: Grade 9 William D. Pratt Health Class, “Nutrition and your life”, February 21, 2020
6. Guest lecture: Rotary Partners’ Christmas Luncheon, “Inspired by Nutrition” Calgary, December 1, 2018
7. Volunteer: Samaritan’s Purse Operation Christmas Child Shoebox Sorting and Packing. Calgary, November 30, 2018
8. Guest lecture: Calgary South Rotary Club, “Is it true that you are what you eat?” Calgary, August 16, 2018
9. Telus Spark Spring Sparktacular. Reimer Nutrition Lab hosted interactive booths on “What happens in the body when you eat chocolate?” Calgary, April 3 & 4, 2015
10. Guest lecture: Clinical Trial Educational Evening, “Achieving a healthy childhood body weight” University of Calgary, Feb. 25, 2015
11. Calgary Flames Health Training Camp. Reimer Nutrition Lab interactive booths on nutrition and healthy body weight. January 10, 2015
12. Guest lecture: Human Performance Laboratory Public Open House, “Popular Diet Myths Exposed” University of Calgary, October 15, 2014
13. Guest lecture: Clinical Trial Educational Evening, “Diet, Nutrition and Weight Loss” University of Calgary, May 28, 2014.
14. Guest lecture: Lunch and Learn, “Eat, walk and sleep your way to good health” University of Calgary, August 15, 2013
15. Guest lecture: Fitness Challenge Kick Off Lecture, “Eat, walk and sleep your way to good health” University of Calgary, May 24, 2013
16. Job shadow: Nicole Holmes, Grade 11 Student, Oct. 26, 2012
17. District Captain: Heart and Stroke Foundation, 2011, 2012, 2013
18. Scholarships, Bursaries and Awards Committee, Centre Street Church, 2011-2014
19. Volunteer Canvasser: Heart and Stroke Foundation, 2010
20. Guest lecture: Lunch and Learn, “Weighty Issues: How Diet Affects our Genes” University of Calgary, 2009
21. Guest lecture: “Controlling Diabetes and Overweight: Today and into the Future”. Kerby Centre, Calgary, 2008
22. Guest lecture: “Preventing Type 2 Diabetes and Debunking Myths about Fad Diets”. Diabetes Awareness Day. University of Calgary, 2004.
23. Guest lecture: “Who’s Winning the Food Fight: The Low-Down on Obesity”. Big Rock University Lecture Series, 2004
24. Guest lecture: “How Today’s Foods Are Super-Sizing Our Kids”. Kinesiology Active Living Series, 2004
25. Guest lectures: “The Best Diet to Battle the Bulge”. Diabetes Awareness Day. U of Calgary, 2003

26. Guest lecture: “Optimizing Your Health With Nutrition”. CANA Ltd., 2002
27. Guest lecture: “Keys to Healthy Eating”. Okotoks Swim Club, 2001

MEDIA INTERVIEWS:

1. Carleton University Journalism Program, Isabella Stephenson: “Popular diets: carbon footprints and diet quality”. (September 26, 2023)
2. Arch Magazine: “You are what your grandfather ate”. Jacquie Moore writer. (April 20, 2023) <https://archmagazine.ucalgary.ca/the-microbiome-era/>
3. Arch Magazine: “Asking for a Friend: Stampede 2022 Midway Food” (June 27, 2022) <https://ucalgary.ca/news/stampede-midway-food-nutrition>
4. NUTRAingredients-usa.com: “Sweeteners consumed during pregnancy may affect baby’s microbiome” (February 3, 2022) <https://www.nutraingredients-usa.com/Article/2022/02/03/sweeteners-consumed-during-pregnancy-may-affect-baby-s-microbiome>
5. UK Today News: “Consuming sweeteners during pregnancy may affect baby’s microbiome and obesity risk” (January 17, 2022) <https://todayuknews.com/health/consuming-sweeteners-during-pregnancy-may-affect-babys-microbiome-and-obesity-risk/>
6. NutritionInsight.com, Missy Green: “Sweeteners during pregnancy may increase obesity risk in offspring” (January 17, 2022) <https://www.nutritioninsight.com/news/sweeteners-during-pregnancy-may-increase-obesity-risk-in-offspring.html>
7. Chris Veloy, Norwegian Broadcasting Corporation: “Aspartame and obesity” (May 13, 2021)
8. Lisa Fields, Freelance writer: “Maternal consumption of artificial sweeteners” (February 6, 2020)
9. CTV Morning Live Ottawa: “Diet and your microbes” (February 6, 2020)
10. CTV News at Noon Calgary: “Risks of aspartame and stevia on offspring” (February 4, 2020)
11. UK The Mail on Sunday, Stephen Adams: “Artificial sweeteners during pregnancy” (February 4, 2020 – Posted February 15, 2020)
12. CBC French Radio, Tiphonie Roquette: “Pregnancy and low-calorie sweeteners” (January 29, 2020)
13. UToday, Leanne Yohemas: “Low-calorie sweeteners do not mean low risk for infants” (January 15, 2020 – Posted January 30, 2020)
14. UCalgary Explore, Doug Ferguson: “How do you eat to feed trillions? Food and the health of our gut microbiomes” (August 23 & 30, 2019 – Posted Dec. 17, 2019)
15. AM 660 Radio, Jenna Hamilton: “Let food be your medicine” (December 5, 2018)
16. UCalgary Explore, Jennifer Allford: “Gut health and nutrition” (September 7, 2018)
17. BlackDoctor.org, Constance Brown-Riggs: “Prebiotics: one more tool to help weight loss & manage diabetes” (November 24, 2017)
18. Apple Magazine, Jacqueline Louie: “Watching more than your weight” (October 26, 2017)
19. EveryBody Matters, Telefilm Documentary (Canada and Australia), Scott Allan: Part II “Myths and misinformation about obesity” (August 28, 2017)
20. Sunday Express UK, Lucy Johnston: “Prebiotic treatment for obesity in children” (June 16, 2017)
21. CBC Radio Quirks & Quarks, Amina Zafar: “Prebiotic fibre for children with obesity” (June 14, 2017)
22. MedicalResearch.com, Marie Benz: “Prebiotic reduces body fat and changes intestinal

- microbiota in children with overweight or obesity” (June 9, 2017)
23. AM 770 Radio, Peter Watts: “Prebiotic fiber reduces body fat and changes gut microbiota in children with overweight or obesity” (June 8, 2017)
 24. CBC Radio, Shannon Scott: “A little fiber a day can help pounds fly away for overweight kids, Calgary study suggests” (June 7, 2017)
 25. Freelance Writer, Christine Yu: “Prebiotic fiber reduces body fat and changes gut microbiota in children with overweight or obesity” (June 6, 2017)
 26. Alberta Pulse Growers Commission, Kieran Brett: “Pulse fiber supplementation and the metabolic syndrome” (May 11, 2017)
 27. EveryBody Matters, Telefilm Documentary (Canada and Australia), Scott Allan: “Myths and misinformation about obesity” (June 14, 2016)
 28. Pacific Standard Magazine, Francie Diep: “Common scientific errors in obesity and nutrition research” (March 31, 2016)
 29. NY News Service, Rachael Stark: “Diet-induced changes in maternal microbiota during pregnancy” (March 7, 2016)
 30. ALN Magazine, Elizabeth Doughman: “Gut bacteria and family obesity cycle” (March 7, 2016)
 31. CTV News, Kevin Green: “Feeding healthy gut bacteria in pregnancy” (March 2, 2016)
 32. CBC French Radio, Stephanie Rousseau: “Pregnancy and healthy gut bacteria” (March 2, 2016)
 33. AM 660 Radio, Kaitlyn Lee: “Gut bacteria may help put a kink in family obesity cycle” (March 2, 2016)
 34. Tagesanzeiger Zurich, Mr. Kung: “Nutrition research in the Human Performance Lab” (August 25, 2015)
 35. Nutritional Outlook, Maureen Kingsley: “Nutritional supplements for weight management in children/adolescents” (June 18, 2015)
 36. Apple Magazine, Caitlin Crawshaw: “Prebiotic fibre stops weight gain” (June 3, 2015)
 37. Vancouver The Early Edition Radio, Rick Cluff: “Study looks at slimming effects of fibre” (April 10, 2015)
 38. Daybreak Kamloops Radio, Shelley Joyce: “Study looks at slimming effects of fibre” (April 10, 2015)
 39. Prince George Daybreak North Radio, Russel Bowers: “Study looks at slimming effects of fibre” (April 10, 2015)
 40. Cape Breton Information Morning Radio, Steve Sutherland: “Study looks at slimming effects of fibre” (April 10, 2015)
 41. Windsor Morning Radio, Tony Doucette: “Study looks at slimming effects of fibre” (April 10, 2015)
 42. CTV News, Global News, City TV Breakfast Television: “Fibre protects rats against junk food diet weight gain” (April 8, 2015)
 43. CBC Radio Eyeopener Calgary, David Gray: “Study looks at slimming effects of fibre” (April 8, 2015)
 44. CBC Radio Edmonton AM, Mark Connolly: “Prebiotic fiber reduces weight gain in rats” (April 8, 2015)
 45. Canadians for Health Research, Heather Pengelley: “Researcher of the Month – February 2015” (January 14, 2015)
 46. Today’s Dietitian Magazine, Jill Weisenberger: “Dietary fiber and body weight” (November

- 18, 2014)
47. AM 770 Radio, Angela Kokott: “Obese children do not perceive themselves as obese” (July 24, 2014)
 48. Wall Street Journal, Laura Johannes, “Yacon syrup for obesity and insulin resistance”, June 11, 2014.
 49. Calgary Herald, Meghan Jessiman, “Clinical trial in overweight children” March 13, 2014
 50. Eatandbeatcancer.com, Harriet Sugar Miller, “Anti-cancer food: serve up some fermentable fiber”, March 13, 2014
 51. CTV Health Watch, Karen Owen, “Childhood prebiotic fiber study” March 6, 2014
 52. Global TV (Heather Yourex), CTV (Karen Owen), CityTV, Calgary Herald, Calgary Sun: BMO Financial Group Nutrition Dream Team Targets Childhood Obesity” (Oct. 15, 2013)
 53. 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)
 54. AM 770 Radio, Angela Kokott: “Prebiotic fiber for pediatric obesity” (Oct. 15, 2013)
 55. Alberta Innovates Bio Solutions, Tricia Radison: “Pea fiber and health benefits” (May 16, 2013)
 56. Canadian Living Magazine, Cara Rosenbloom: “Dairy product intake and type 2 diabetes” (January 14, 2013)
 57. Men’s Health Magazine, Julie Stewart: “Dietary fiber, gut microbiota and weight control” (Nov. 30, 2012)
 58. Global TV, Heather Yourex: “Cutting out sweets – the pulse fiber diet” (Nov. 19, 2012)
 59. Western Producer, Barbara Duckworth: “The three cookie diet” (Nov. 16, 2012)
 60. Sing Tao Newspapers (affiliate of Toronto Star), Teddy Kwok: “The three cookie diet” (Nov. 15, 2012)
 61. CIHR Research Profile, Joe Sornberger: “Prebiotic fiber and the stop eating signals” (Nov. 1, 2012)
 62. National Post, Ben Kaplan: “What to eat when you’re a runner” (June 4, 2012)
 63. Baby & Kleinkind Magazine (Switzerland), Susanna Steimer Miller: “How does early childhood nutrition affect future health of a human being” (January 23, 2012)
 64. CBC Radio Homestretch, Jenn Blair: “Speed Date a Researcher” (January 16, 2012)
 65. Gauntlet, Olivia Brooks: “Raw food diets” (September 12, 2011)
 66. Leap Magazine, Cailynn Klingbeil: “Vitamin K-rich foods and blood thinners” (July 7, 2011)
 67. Alberta Innovates Annual Report, Colleen Scott: “Pulse-derived food ingredients differentially modify body fat and glucose control” (Apr. 21, 2011)
 68. The Calgary Journal, Aurora Graveland: “Raw vegan diets: pros and cons” (Dec. 7, 2010)
 69. Postmedia News, Misty Harris: “Sugary foods decrease aggression” (Nov. 24, 2010)
 70. CIHR Research Profile, Graeme Stemp-Morlock: “Dietary fiber and gut adaptation in obesity” (Nov. 23, 2010)
 71. AOL, James Fell: “Fat: the forgotten foe” (August 26, 2010)
 72. Prevention Magazine, Angela Pirisi: “How science is showing that nutrients can help with weight control” (October 13, 2009)
 73. 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)

74. Radio Canada, Gabriella Mayorquin: "Early dietary programming of obesity risk in adulthood" (February 4, 2009)
75. CTV Newsnet, Scott Laurie: "Childhood diet and weight gain in adulthood" (January 14, 2009)
76. 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.
77. QR77 Radio, Andy Gregory: "Childhood diet determines chronic disease risk in adulthood" (January 14, 2009)
78. CTV News, Karen Owen: "Early diet programs increased obesity in adulthood" (January 13, 2009)
79. Calgary Herald, Michelle Magnan: "Fresh ideas from health and wellness research" (January 6, 2009)
80. CBC Radio Quirks & Quarks, Cassie Williams: "Use of cranberry juice in preventing urinary tract infections" (November 27, 2008)
81. Food for Thought Magazine, Tracy Hyatt: "Fatty acid composition of lard" (October 22, 2008)
82. Leslie Beck Nutrition (CTV Canada AM): "Dietary fiber supplements" (April 23, 2008)
83. Global TV, Michelle Schurman: "Fact or fiction: myths about drinking water and artificial sweeteners" (April 18, 2008)
84. SAIT TV, Ali Rutherford: "Infant nutrition: are organics better?" (April 2, 2008)
85. Global TV, Michelle Schurman: "Prebiotic fiber: an effective weight loss supplement" (March 3, 2008)
86. Conduit Magazine (official publication of the Canadian Obesity Network), Sarah Van Engelen: "Role of diet composition in early dietary programming" (February 11, 2008)
87. Chatelaine Magazine, Andre Voshart: "How to make the most of your metabolism" (January 24, 2008)
88. CBC Radio, Donna McElligot: "Dairy products and the metabolic syndrome" (January 8, 2008)
89. CTV News, Karen Owen: "Low-fat milk product intake and prediabetes" (November 13, 2007)
90. QR77, Tara Fedun: "Milk and weight loss" (November 13, 2007)
91. Calgary Metro, Christa Sylvester: "Dairy and body fat loss research trial" (November 13, 2007)
92. Toronto Star, Megan Ogilvie: "Epigenetics and obesity" (August 28, 2007)
93. Avenue Magazine, Candace Valentine: "Early diet and genetic programming" (July 25, 2007)
94. News release: "New questions about early childhood nutrition" (May 17, 2007) Interviews by 3 television stations, 2 newspapers and 3 radio stations.
95. Men's Health Magazine, Denny Watkins: "New fibre supplement to help curb the bulging waistline" (March 13, 2007)
96. U of C Zine, Irfan Jessa: "New Advancements in Obesity Treatment Made in the Human Performance Lab" (March Edition, 2007)
97. News release: "Natural fibre may take extra pounds away" (January 31, 2007) Interviews by 7 television stations, 2 newspapers and 1 radio station.

98. Global TV, Michelle Schurman: "Citrus crisis and vitamin C rich foods" (January 19, 2007)
99. CTV National News, Sarah Galashan: "Death linked to hyperhydration and fluid requirements" (January 15, 2007)
100. Canadian Living, Jaclyn Newman: "Vitamin B12 deficiencies in obese children" (November 7, 2006)
101. Shaw TV, Pearl Tsang: "Greater obesity rates in rural versus urban Canadians" (August 23, 2006)
102. CTV National News, Sarah Galashan: "Supplements and Canadian Food Inspection Agency" (May 2, 2005)
103. Calgary Herald, Opinion Piece: "High Fructose Corn Syrup" (March 9, 2005)
104. Calgary Sun, Andrea Radke: "Teens, Diabetes, Diet and Obesity" (March 6, 2005)
105. Calgary Herald, Lin Connery: "Seniors and Unique Nutritional Challenges" (January 11, 2005)
106. CBC TV Newsworld, Cam McIntosh: "Obesity Trends in Canada and Impact on Transport Canada Raising Average Passenger Weights for Airlines" (December 22, 2004)
107. A-Channel, Leah Sarich: "Banning Trans Fats in the Canadian Food Supply" (November 25, 2004)
108. Faculty Research Profiles, Donna Gray: "Role of Diet Composition in Preventing and Treating Obesity and Diabetes" (October 25, 2004)
109. Ottawa Citizen/Canwest, David Agren: "Detoxifying Diets" (October 4, 2004)
110. City TV Vancouver, Cindy Leong: "Probiotics" (August 18, 2004)
111. Calgary Sun, Michelle Mark: "The 7 Deadly Sins – Gluttony" (August 4, 2004)
112. Calgary Sun, Teresa Taylor: "Bad Breath and Risks of the Atkins Diet" (May 17, 2004)
113. Calgary Sun, Lorena Johnson: "10 Best and Worst Foods for Health" (March 3, 2004)
114. Calgary Sun, Kyla Hoggan: "50-Plus Nutrition and Fitness" (February 27, 2004)
115. A-Channel, Leah Sarich: "Is Chocolate Healthy?" (February 13, 2004)
116. Edmonton Sun, Wendy Jacobs: "Heart and Stroke Foundations New Recommendations on Obesity" (February 12, 2004)
117. CBC Radio, Eyeopener with Jeff Collins: "Childhood Obesity and Food" (January 22, 2004)
118. CBC National, Crystal Goomansingh: "Atkins Low Carbohydrate Diet" (January 20, 2004)
119. A-Channel, Leah Sarich: "Biophotonic Scanner to Measure Antioxidants in Skin" (January 14, 2004)
120. CBC Radio, Corinne Cryan: "Vending Machine Removal from Schools" (January 6, 2004)
121. CBC TV, Rick Donkers: "Soft Drinks Banned in Elementary and Junior High Schools" (January 6, 2004)
122. A-Channel, Leah Sarich: "Echinacea and Energy Boosters in Smoothie Drinks" (November 28, 2003)
123. Calgary Herald, Val Berenay: "Food Inspection Agency Probe into Power Bars and Sport Drinks" (November 20, 2003)
124. NorthHill Publications, Bryan Alary: "Obesity and Inactive Lifestyles" (September 17, 2003)
125. CBC Radio, Calgary Eyeopener with Jeff Collins: "Back to School Lunches and Snacks" (September 3, 2003)

126. CBC Radio, Home Stretch with Andrew Schultz: “Low-Calorie Summer Drinks” (August 15, 2003)
127. CBC Radio, Home Stretch with Sharon Edwards: “Are Our Children Living in a Toxic Food Environment?” (April 7, 2003)
128. Canadian Press, Carol Harrington: “Toxic Food Environment” (March 25, 2003)
129. Parallel for University of Calgary Annual Research Report, Jacqueline Louie: “Eating Right for Health” (March 10, 2003)
130. A-Channel, Helen DeVries: “Health Effects of Processed Lunches for Children” (January 29, 2003)
131. CBC Radio, Home Stretch with Sharon Edwards: “Nutritional Content of Fast Food Healthy Choices Menus” (January 23, 2003)
132. A-Channel, Tracy Prediger: “Food Irradiation” (December 2002)
133. Global Television, Jennifer Lyall: “Childhood Obesity and Health Consequences” (November 2002)
134. QR77 Radio, Bruce Kenion: “Nutrition and High Blood Pressure” (September 2002)
135. Empire Group, Jacksonville, FL; Will Sligel: “GLP-1 Analogues and Diabetes” (2002)
136. Mount Royal College Journal, Todd Herman: “Organic Foods” (2002)
137. Pixcom Productions for Discovery Canada, Janet Torge: “Performance Series: Fuelling the Body” (November 13, 2001)
138. Chamber of Commerce, Mark Lowey: “Reverse Brain Drain” (September 29, 2000)