

## Research Papers Published by NGP Graduate Students

NGP graduate students are in **bold**; Major advisor(s) are *italicized*

July 1, 2022 – June 30, 2023

1. **Bouranis JA**, Beaver LM, Jiang D, Choi J, Wong CP, Davis EW, Williams DE, Sharpton TJ, Stevens JF, *Ho E*. Interplay between cruciferous vegetables and the gut microbiome: A multi-omic approach. *Nutrients*. 2022 Dec 22;15(1):42. doi: 10.3390/nu15010042. PMID: 36615700; PMCID: PMC9824405.
2. **Chan LE**, Thessen AE, Duncan WD, Matentzoglou N, Schmitt C, Grondin CJ, Vasilevsky N, McMurry JA, Robinson PN, Mungall CJ, *Haendel MA*. The Environmental Conditions, Treatments, and Exposures Ontology (ECTO): connecting toxicology and exposure to human health and beyond. *J Biomed Semantics*. 2023 Feb 24;14(1):3. doi: 10.1186/s13326-023-00283-x. PMID: 36823605; PMCID: PMC9951428.
3. **Chan LE**, Casiraghi E, Laraway B, Coleman B, Blau H, Zaman A, Harris N, Wilkins K, Gargano M, Valentini G, Sahner D, *Haendel M*, Robinson PN, Bramante C, Reese J. Metformin is associated with reduced COVID-19 severity in patients with prediabetes. *medRxiv [Preprint]*. 2022 Aug 30:2022.08.29.22279355. doi: 10.1101/2022.08.29.22279355. Update in: *Diabetes Res Clin Pract*. 2022 Nov 15;194:110157. PMID: 36093353; PMCID: PMC9460973.
4. Casiraghi, E., Wong, R., Hall, M., Coleman, B., Notaro, M., Evans, M. D., Tronieri, J. S., Blau, H., Laraway, B., Callahan, T. J., **Chan, L. E.**, Bramante, C. T., Buse, J. B., Moffitt, R. A., Stürmer, T., Johnson, S. G., Raymond Shao, Y., Reese, J., Robinson, P. N., N3C Consortium. (2023). A method for comparing multiple imputation techniques: A case study on the U.S. national COVID cohort collaborative. *Journal of Biomedical Informatics*, 139, 104295.
5. Jones S, Bradwell KR, **Chan LE**, Olson-Chen C, Tarleton J, Wilkins KJ, Qin Q, Faherty EG, Lau YK, Xie C, Kao YH, Liebman MN, Mariona F, Challa A, Li L, Ratcliffe SJ, McMurry JA, *Haendel MA*, Patel RC, Hill EL. Who is pregnant? defining real-world data-based pregnancy episodes in the National COVID Cohort Collaborative (N3C). *medRxiv [Preprint]*. 2022 Aug 6:2022.08.04.22278439. doi: 10.1101/2022.08.04.22278439. PMID: 35982668; PMCID: PMC9387155.
6. Qin, Q., Wilkins, K., Jones, S., Bradwell, K., **Chan, L.**, Sun, J., Zheng, Q., Liebman, M., Mariona, F., Faherty, E., A., Hill, E., Patel, R., (2022). Evaluating vaccine effectiveness via post-COVID-19 vaccination breakthrough infections among pregnant and non-pregnant persons in the U.S. Retrospective Cohort Analysis from a Nationally-Sampled Cohort in N3C. *Preprints with The Lancet*.
7. Andrés-Hernández, L., Blumberg, K., Walls, R. L., Dooley, D., Mauleon, R., Lange, M., Weber, M., **Chan, L.**, Malik, A., Møller, A., Ireland, J., Segovia, L., Zhang, X., Burton-Freeman, B., Magelli, P., Schriever, A., Forester, S. M., Liu, L., & King, G. J. (2022). Establishing a Common Nutritional Vocabulary - From Food Production to Diet. *Frontiers in Nutrition*, 9. <https://doi.org/10.3389/fnut.2022.928837>
8. Brown KS, **Jamieson P**, Wu W, Vaswani A, Alcazar Magana A, Choi J, Mattio LM, Cheong PH, Nelson D, Reardon PN, Miranda CL, Maier CS, *Stevens JF*. Computation-assisted identification of bioactive compounds in botanical extracts: A case study of anti-inflammatory natural products from hops. *Antioxidants (Basel)*. 2022 Jul 19;11(7):1400. doi: 10.3390/antiox11071400. PMID: 35883889; PMCID: PMC9312012.
9. **Jamieson PE**, Carbonero F, *Stevens JF*. Dietary (poly)phenols mitigate inflammatory bowel disease: Therapeutic targets, mechanisms of action, and clinical observations. *Curr Res Food Sci*. 2023 May 18;6:100521. doi: 10.1016/j.crfs.2023.100521. PMID: 37266414; PMCID: PMC10230173.

10. **Turner RT, Nesser KL**, Philbrick KA, Wong CP, Olson DA, Branscum AJ, *Iwaniec UT*. Leptin and environmental temperature as determinants of bone marrow adiposity in female mice. *Front Endocrinol (Lausanne)*. 2022 Oct 6;13:959743. doi: 10.3389/fendo.2022.959743. PMID: 36277726; PMCID: PMC9582271.
11. **Sattgast LH**, Branscum AJ, Newman N, Gonzales SW, Benton ML, Baker EJ, Grant KA, *Turner RT, Iwaniec UT*. Ethanol alters the relationship between IGF-1 and bone turnover in male macaques. *J Endocrinol*. 2022 Oct 31;255(3):131-141. doi: 10.1530/JOE-22-0075. PMID: 36194528; PMCID: PMC9651018.
12. **Sattgast LH**, Wong CP, Branscum AJ, Olson DA, Aguirre-Burk AM, *Iwaniec UT, Turner RT*. Small changes in thermoregulation influence cancellous bone turnover balance in distal femur metaphysis in growing female mice. *Bone Rep*. 2023 Mar 21;18:101675. doi: 10.1016/j.bonr.2023.101675. PMID: 37007217; PMCID: PMC10063413.
13. **Spooner MH, Jump DB**. Nonalcoholic Fatty Liver Disease and Omega-3 Fatty Acids: Mechanisms and Clinical Use. *Annu Rev Nutr*. 2023 May 19. doi: 10.1146/annurev-nutr-061021-030223. Epub ahead of print. PMID: 37207355.

#### **July 1, 2021 – June 30, 2022**

1. **Bouranis JA**, Beaver LM, *Ho E*. Metabolic fate of dietary glucosinolates and their metabolites: A role for the microbiome. *Front Nutr*. 2021 Sep 22;8:748433. doi: 10.3389/fnut.2021.748433. PMID: 34631775; PMCID: PMC8492924.
2. **Bouranis JA**, Beaver LM, Choi J, Wong CP, Jiang D, Sharpton TJ, Stevens JF, *Ho E*. Composition of the gut microbiome influences production of sulforaphane-nitrile and iberin-nitrile from glucosinolates in broccoli sprouts. *Nutrients*. 2021 Aug 28;13(9):3013. doi: 10.3390/nu13093013. PMID: 34578891; PMCID: PMC8468500.
3. Liang N, **Beverly RL**, Scottoline BP, *Dallas DC*. Peptides derived from In vitro and In vivo digestion of human milk are immunomodulatory in THP-1 human macrophages. *J Nutr*. 2022 Jan 11;152(1):331-342. doi: 10.1093/jn/nxab350. PMID: 34601601; PMCID: PMC8754566. (Beverly RL graduated in 2021; Dallas, major professor)
4. Reese JT, Coleman B, **Chan L**, Blau H, Callahan TJ, Cappelletti L, Fontana T, Bradwell KR, Harris NL, Casiraghi E, Valentini G, Karlebach G, Deer R, McMurry JA, *Haendel MA*, Chute CG, Pfaff E, Moffitt R, Spratt H, Singh JA, Mungall CJ, Williams AE, Robinson PN. NSAID use and clinical outcomes in COVID-19 patients: a 38-center retrospective cohort study. *Virology*. 2022 May 15;19(1):84. doi: 10.1186/s12985-022-01813-2. PMID: 35570298; PMCID: PMC9107579.
5. Coleman B, Casiraghi E, Blau H, **Chan L**, *Haendel MA*, Laraway B, Callahan TJ, Deer RR, Wilkins KJ, Reese J, Robinson PN. Risk of new-onset psychiatric sequelae of COVID-19 in the early and late post-acute phase. *World Psychiatry*. 2022 Jun;21(2):319-320. doi: 10.1002/wps.20992. PMID: 35524622; PMCID: PMC9077621.
6. Coleman B, Casiraghi E, Blau H, **Chan L**, *Haendel M*, Laraway B, Callahan TJ, Deer RR, Wilkins K, Reese J, Robinson PN. Increased risk of psychiatric sequelae of COVID-19 is highest early in the clinical course. *medRxiv [Preprint]*. 2021 Dec 2:2021.11.30.21267071. doi: 10.1101/2021.11.30.21267071. PMID: 34909790; PMCID: PMC8669857.
7. Deer RR, Rock MA, Vasilevsky N, Carmody L, Rando H, Anzalone AJ, Basson MD, Bennett TD, Bergquist T, Boudreau EA, Bramante CT, Byrd JB, Callahan TJ, **Chan LE**, Chu H, Chute CG, Coleman BD, Davis HE, Gagnier J, Greene CS, Hillegass WB, Kavuluru R, Kimble WD, Koraihy FM, Köhler S, Liang C, Liu F, Liu H, Madhira V, Madlock-Brown CR, Matentzoglou N, Mazzotti DR, McMurry JA, McNair DS, Moffitt RA, Monteith TS, Parker AM, Perry MA, Pfaff E, Reese JT, Saltz J, Schuff RA, Solomonides AE, Solway J, Spratt H, Stein

- GS, Sule AA, Topaloglu U, Vavougiou GD, Wang L, *Haendel MA*, Robinson PN. Characterizing Long COVID: Deep phenotype of a complex condition. *EBioMedicine*. 2021 Dec;74:103722. doi: 10.1016/j.ebiom.2021.103722. Epub 2021 Nov 25. PMID: 34839263; PMCID: PMC8613500.
8. **Chan L**, Vasilevsky N, Thessen A, Matentzoglou N, Duncan W, Mungall C, *Haendel M*. (2021). A semantic model leveraging pattern-based ontology terms to bridge environmental exposures and health outcomes. *CEUR Workshop Proceedings*.
  9. Antar T, **Chan L**, Jason E, Moraczewski D, Pu K, Ruan E, Thomas A G (2021). Visualizing the nutritional landscape of food: An NIH Codeathon Project. <https://doi.org/10.5281/zenodo.5504204>
  10. Dooley D, Andrés-Hernández L, Bordea S, Carmody L, Cavalieri D, **Chan L**, Castellano-Escuder P, Lachat C, Mougín F, Vitali F, Yang C., Weber M, Kucuk McGinty H, Lang, M. (2021). OBO Foundry Food Ontology Interconnectivity. *CEUR Workshop Proceedings*.
  11. Toro S, Hamosh A, Matentzoglou N, Munoz-Torres M, **Chan L**, Thaxton C, Alyea G, *Haendel M*, Mungall C, Robinson PN, Vasilevsky N (2021). New view of the Mondo Disease Ontology High-level Classification According to Harrison's Principles of Internal Medicine textbook. <https://doi.org/10.5281/zenodo.5273598>
  12. Tomayko EJ, Tovar A, Fitzgerald N, Howe CL, Hingle MD, **Murphy MP**, Muzaffar H, Going SB, Hubbs-Tait L. Parent involvement in diet or physical activity interventions to treat or prevent childhood obesity: An umbrella review. *Nutrients*. 2021 Sep 16;13(9):3227. doi: 10.3390/nu13093227. PMID: 34579099; PMCID: PMC8464903.
  13. **Sattgast LH**, Branscum AJ, Jimenez VA, Newman N, Grant KA, *Turner RT*, *Iwaniec UT*. Between-subject and within-subject variability in measures of biochemical markers of bone turnover in cynomolgus and rhesus macaques. *Bone Rep*. 2021 Sep 5;15:101126. doi: 10.1016/j.bonr.2021.101126. PMID: 34541261; PMCID: PMC8436065.
  14. *Turner RT*, **Sattgast LH**, Jimenez VA, Grant KA, *Iwaniec UT*. Making sense of the highly variable effects of alcohol on bone. *Clinic Rev Bone Miner Metab* 2021;19, 1–13. <https://doi.org/10.1007/s12018-021-09277-8>.
  15. Joyce KM, Wong CP, Scriven IA, Olson DA, Doerge DR, Branscum AJ, **Sattgast LH**, Helferich WG, *Turner RT*, *Iwaniec UT*. Isoliquiritigenin decreases bone resorption and osteoclast differentiation. *Mol Nutr Food Res*. 2022 Jun;66(11):e2100974. doi: 10.1002/mnfr.202100974. Epub 2022 Apr 5. PMID: 35319818.

### **June 16, 2020 – June 15, 2021**

1. Nielsen SD, **Beverly RL**, Underwood MA, *Dallas DC*. Differences and similarities in the peptide profile of preterm and term mother's milk, and preterm and term infant gastric samples. *Nutrients*. 2020 Sep 15;12(9):2825. doi: 10.3390/nu12092825. PMID: 32942688; PMCID: PMC7551100.
2. **Beverly RL**, Huston RK, Markell AM, McCulley EA, Martin RL, *Dallas DC*. Differences in human milk peptide release along the gastrointestinal tract between preterm and term infants. *Clin Nutr*. 2021 Mar;40(3):1214-1223. doi: 10.1016/j.clnu.2020.07.035. Epub 2020 Aug 6. PMID: 32800606; PMCID: PMC7865014.
3. *Dallas DC*, Sah BN P., **Beverly RL**, You X, Hilliard MA, Sela D, Donovan S. (2020) Nonprotein nitrogen and small peptides in human milk. In McGuire, M., O'Connor, D. (Ed.), *Human Milk: Sampling, Measurement and Content of Energy-Yielding Nutrients and Other Macromolecules*. Elsevier. (Invited Chapter). Pages 299-336. ISBN: 9780128153505.

4. **Beverly RL**, Woonnimani P, Scottoline BP, Lueangsakulthai J, *Dallas DC*. Peptides from the intestinal tract of breast milk-fed infants have antimicrobial and bifidogenic activity. *Int J Mol Sci*. 2021 Feb 27;22(5):2377. doi: 10.3390/ijms22052377. PMID: 33673498; PMCID: PMC7956819.
5. **Chan LE, Beverly RL, & Dallas DC**. (2021). The enzymology of human milk. In A. L. Kelly & L. B. Larsen (Eds.), *Agents of Change: Enzymes in Milk and Dairy Products* (pp. 209–243). Springer International Publishing. ISBN: 9783030554811 (book chapter)
6. Thessen AE, Grondin CJ, Kulkarni RD, Brander S, Truong L, Vasilevsky NA, Callahan TJ, **Chan LE**, Westra B, Willis M, Rothenberg SE, Jarabek AM, Burgoon L, Korrick SA, *Haendel MA*. Community Approaches for Integrating Environmental Exposures into Human Models of Disease. *Environ Health Perspect*. 2020 Dec;128(12):125002. doi: 10.1289/EHP7215. Epub 2020 Dec 28. PMID: 33369481; PMCID: PMC7769179.
7. **Chan L**, Vasilevsky N, Thessen A, McMurry J, *Haendel M*. The landscape of nutri-informatics: a review of current resources and challenges for integrative nutrition research. *Database (Oxford)*. 2021 Jan 25;2021:baab003. doi: 10.1093/database/baab003. PMID: 33494105; PMCID: PMC7833928.
8. **Crespo-Bellido M**, Grutzmacher S, *Smit E*. Food security and alternative food acquisition among US low-income households: results from the National Food Acquisition and Purchasing Survey (FoodAPS). *Public Health Nutr*. 2021 Apr;24(5):787-795. doi: 10.1017/S1368980020003791. Epub 2020 Oct 29. PMID: 33118898.
9. **Crespo-Bellido MS**, Grutzmacher SK, Takata Y, *Smit E*. The association between food-away-from-home frequency and a higher BMI varies by Food Security Status in US Adults. *J Nutr*. 2021 Feb 1;151(2):387-394. doi: 10.1093/jn/nxaa364. PMID: 33296463.
10. **Crespo-Bellido M**, Takata Y, Jackson J, Grutzmacher S, *Smit E*. Dietary quality and caloric contribution of the alternative food acquisitions of U.S. low-income households: results from the National Food Acquisition and Purchasing Survey (Foodaps). *J Hunger Environ Nutr*. 2021 March; doi: [10.1080/19320248.2021.1901170](https://doi.org/10.1080/19320248.2021.1901170).
11. García-Jaramillo M, Beaver LM, Truong L, Axton ER, **Keller RM**, Prater MC, Magnusson KR, Tanguay RL, *Stevens JF, Hord NG*. Nitrate and nitrite exposure leads to mild angiogenic-like behavior and alters brain metabolomic profile in zebrafish. *PLoS One*. 2020 Dec 31;15(12):e0240070. doi: 10.1371/journal.pone.0240070. PMID: 33382700; PMCID: PMC7774831.
12. **Keller RM**, Beaver LM, Reardon PN, Prater MC, Truong L, Robinson MM, Tanguay RL, *Stevens JF, Hord NG*. Nitrate-induced improvements in exercise performance are coincident with exuberant changes in metabolic genes and the metabolome in zebrafish (*Danio rerio*) skeletal muscle. *J Appl Physiol* (1985). 2021 Jul 1;131(1):142-157. doi: 10.1152/jappphysiol.00185.2021. Epub 2021 May 27. PMID: 34043471; PMCID: PMC8325611.
13. **Sattgast LH**, Branscum AJ, Walter NAR, Newman N, Gonzales SW, Grant KA, *Turner RT, Iwaniec UT*. Effects of graded increases in ethanol consumption on biochemical markers of bone turnover in young adult male cynomolgus macaques. *Alcohol*. 2021 Mar;91:53-59. doi: 10.1016/j.alcohol.2020.12.003. Epub 2021 Feb 3. PMID: 33358984; PMCID: PMC7931631.
14. Gamboa A, Branscum AJ, Olson DA, **Sattgast LH**, *Iwaniec UT, Turner RT*. Effects of spaceflight on cancellous and cortical bone in proximal femur in growing rats. *Bone Rep*. 2021 Feb 14;14:100755. doi: 10.1016/j.bonr.2021.100755. PMID: 33665238; PMCID: PMC7907224.
15. Tran L, Bobe G, Arani G, **Zhang Y**, Zhang Z, Shannon J, Takata Y. Diet and *PPARG2* Pro12Ala Polymorphism Interactions in Relation to Cancer Risk: A Systematic Review.

Nutrients. 2021 Jan 18;13(1):261. doi: 10.3390/nu13010261. PMID: 33477496; PMCID: PMC7831057.

16. **Zhang Y**, Bobe G, Miranda CL, Lowry MB, Hsu VL, Lohr CV, Wong CP, Jump DB, Robinson MM, Sharpton TJ, Maier CS, Stevens JF, *Gombart AF*. Tetrahydroxanthohumol, a xanthohumol derivative, attenuates high-fat diet-induced hepatic steatosis by antagonizing PPAR $\gamma$ . *Elife*. 2021 Jun 15;10:e66398. doi: 10.7554/eLife.66398. PMID: 34128467; PMCID: PMC8205491.

### **2019 Publications**

1. **Beverly RL**, Huston RK, Markell AM, McCulley EA, Martin RL, *Dallas DC*. (2019) Milk Peptides Survive In Vivo Gastrointestinal Digestion and Are Excreted in the Stool of Infants. *J Nutr*. Dec 28 PMID: 31883006
2. **Beverly RL**, Underwood MA, *Dallas DC*. (2019) Peptidomics Analysis of Milk Protein-Derived Peptides Released over Time in the Preterm Infant Stomach. *J Proteome Res*. 1;18(3):912-922. PMID 30638015.
3. Shefchek KA<sup>1</sup>, Harris NL<sup>2</sup>, Gargano M<sup>3</sup>, Matentzoglou N<sup>4</sup>, Unni D<sup>2</sup>, Brush M<sup>5</sup>, Keith D<sup>1</sup>, Conlin T<sup>1</sup>, Vasilevsky N<sup>5</sup>, Zhang XA<sup>3</sup>, Balhoff JP<sup>6</sup>, Babb L<sup>7</sup>, Bello SM<sup>8</sup>, Blau H<sup>3</sup>, Bradford Y<sup>9</sup>, Carbon S<sup>2</sup>, Carmody L<sup>3</sup>, **Chan LE**<sup>10</sup>, Cipriani V<sup>11</sup>, Cuzick A<sup>12</sup>, Rocca MD<sup>13</sup>, Dunn N<sup>2</sup>, Essaid S<sup>5</sup>, Fey P<sup>14</sup>, Grove C<sup>15</sup>, Gourdine JP<sup>5</sup>, Hamosh A<sup>16</sup>, Harris M<sup>17</sup>, Helbig I<sup>18,19,20,21</sup>, Hoatlin M<sup>22</sup>, Joachimiak M<sup>2</sup>, Jupp S<sup>4</sup>, Lett KB<sup>1</sup>, Lewis SE<sup>2</sup>, McNamara C<sup>23</sup>, Pendlington ZM<sup>4</sup>, Pilgrim C<sup>17</sup>, Putman T<sup>1</sup>, Ravanmehr V<sup>3</sup>, Reese J<sup>2</sup>, Riggs E<sup>24</sup>, Robb S<sup>25</sup>, Roncaglia P<sup>4</sup>, Seager J<sup>12</sup>, Segerdell E<sup>26</sup>, Similuk M<sup>27</sup>, Storm AL<sup>13</sup>, Thaxon C<sup>28</sup>, Thessen A<sup>1</sup>, Jacobsen JOB<sup>11</sup>, McMurry JA<sup>10</sup>, Groza T<sup>23</sup>, Köhler S<sup>29</sup>, Smedley D<sup>11</sup>, Robinson PN<sup>3</sup>, Mungall CJ<sup>2</sup>, *Haendel MA*<sup>1,5</sup>, Munoz-Torres MC<sup>1</sup>, Osumi-Sutherland D<sup>4</sup>. (2019) The Monarch Initiative in 2019: an integrative data and analytic platform connecting phenotypes to genotypes across species. *Nucleic Acids Res*. 2020 Jan 8;48(D1):D704-D715. PMID: 31701156
4. Stierwalt HD, **Ehrlicher SE**, *Robinson MM*, *Newsom SA*. (2019) Diet and Exercise Training Influence Skeletal Muscle Long-Chain acyl-CoA Synthetases. *Med Sci Sports Exerc*. [Epub ahead of print] PMID: 31524824
5. Axton ER, Beaver LM, St Mary L, Truong L, Logan CR, Spagnoli S, Prater MC, **Keller RM**, Garcia-Jaramillo M, **Ehrlicher SE**, Stierwalt HD, *Newsom SA*, *Robinson MM*, Tanguay RL, Stevens JF, *Hord NG*. (2019) Treatment with Nitrate, but Not Nitrite, Lowers the Oxygen Cost of Exercise and Decreases Glycolytic Intermediates While Increasing Fatty Acid Metabolites in Exercised Zebrafish. *J Nutr*. 2019 Dec 1;149(12):2120-2132. PMID: 31495890
6. *Robinson MM*, Sather BK, Burney ER, **Ehrlicher SE**, Stierwalt HD, Franco MC, *Newsom SA*. (2019) Robust intrinsic differences in mitochondrial respiration and H<sub>2</sub>O<sub>2</sub> emission between L6 and C2C12 cells. *Am J Physiol Cell Physiol*. 2019 Aug 1;317(2):C339-C347. PMID: 31091142
7. García-Jaramillo M, **Lytle KA**, **Spooner MH**, *Jump DB*. (2019) A Lipidomic Analysis of Docosahexaenoic Acid (22:6,  $\omega$ 3) Mediated Attenuation of Western Diet Induced Nonalcoholic Steatohepatitis in Male *Ldlr*<sup>-/-</sup> Mice. *Metabolites*. 2019 Oct 28;9(11). PMID:31661783

8. Garcia-Jaramillo M, **Spooner MH**, Löhner CV, Wong CP, Zhang W, *Jump DB*. (2019) Lipidomic and transcriptomic analysis of western diet-induced nonalcoholic steatohepatitis(NASH) in female *Ldlr*<sup>-/-</sup> mice. PLoS One. 14(4):e0214387. PMID: 30943218
9. **Spooner MH**, *Jump DB*. (2019) Omega-3 fatty acids and nonalcoholic fatty liver disease in adults and children: where do we stand? Curr Opin Clin Nutr Metab Care 22(2):103-110. PMID: 30601174
10. Lowry MB, Guo C, **Zhang Y**, Fantacone ML, Logan IE, Campbell Y, Zhang W, Le M, IndraAK, Ganguli-Indra G, Xie J, Gallo RL, Koeffler HP, *Gombart AF*.(2019) A mouse model for vitamin D-induced human cathelicidin antimicrobial peptide gene expression. J Steroid Biochem Mol Biol. 2019 Nov 26;198:105552. PMID: 31783153
11. **Zhang Y**, *Bobbe G*, Revel JS, Rodrigues RR, *Sharpton TJ*, Fantacone ML, Raslan K, Miranda CL, Lowry MB, Blakemore PR, *Morgun A*, *Shulzhenko N*, Maier CS, Stevens JF, *Gombart AF*. (2020) Improvements in Metabolic Syndrome by Xanthohumol Derivatives Are Linked to Altered Gut Microbiota and Bile Acid Metabolism. Mol Nutr Food Res. 2020 Jan;64(1):e1900789. PMID: 31755244

### **2018 Publications**

1. Nielsen SD, **Beverly RL**, Underwood MA, *Dallas DC*. Release of functional peptides from mother's milk and fortifier proteins in the premature infant stomach. PLoS One. 2018 3(11):e0208204. PMID: 30496293
2. Demers-Mathieu V, Underwood MA, **Beverly RL**, *Dallas DC*. Survival of Immunoglobulins from Human Milk to Preterm Infant Gastric Samples at 1, 2, and 3 h Postprandial. Neonatology. 2018;114 (3):242-250. PMID: 29940583
3. Demers-Mathieu V, Underwood MA, **Beverly RL**, Nielsen SD, *Dallas DC*. Comparison of Human Milk Immunoglobulin Survival during Gastric Digestion between Preterm and Term Infants. Nutrients. 2018 May 17;10 (5). PMID: 29772785
4. Stierwalt HD, **Ehrlicher SE**, Bergman BC, *Robinson MM*, *Newsom SA*. Insulin-stimulated Rac1-GTP binding is not impaired by palmitate treatment in L6 myotubes. Physiol Rep. 2018 Dec;6(24):e13956. PMID: 30592185
5. **Ehrlicher SE**, Stierwalt HD, *Newsom SA*, *Robinson MM*. Skeletal muscle autophagy remains responsive to hyperinsulinemia and hyperglycemia at higher plasma insulin concentrations in insulin-resistant mice. Physiol Rep. 2018 Jul;6(14):e13810. PMID: 30047243
6. Dasari S, *Newsom SA*, **Ehrlicher SE**, Stierwalt HD, *Robinson MM*. Remodeling of skeletal muscle mitochondrial proteome with high-fat diet involves greater changes to  $\beta$ -oxidation than electron transfer proteins in mice. Am J Physiol Endocrinol Metab. 2018 Oct 1;315 (4):E425-E434. PMID: 29812987
7. **Conley MN**, Roberts C, Sharpton TJ, Iwaniec UT, *Hord NG*. Increasing dietary nitrate has no effect on cancellous bone loss or fecal microbiome in ovariectomized rats. Mol Nutr Food Res. 2017 May;61 (5). PMID: 28087899
8. *Jump DB*, **Lytle KA**, **Depner CM**, **Tripathy S**. Omega-3 polyunsaturated fatty acids

as a treatment strategy for nonalcoholic fatty liver disease. *Pharmacol Ther.* 2018 Jan;181:108-125. PMID: 28723414

9. Jiang J, **Zhang Y**, Indra AK, Ganguli-Indra G, Le MN, Wang H, Hollins RR, Reilly DA, Carlson MA, Gallo RL, *Gombart AF*, Xie J. 1 $\alpha$ ,25-dihydroxyvitamin D<sub>3</sub>-eluting nanofibrous dressings induce endogenous antimicrobial peptide expression. *Nanomedicine (Lond)*. 2018 Jun;13(12):1417-1432. PMID: 29972648
10. **Philbrick KA**, Branscum AJ, Wong CP, *Turner RT*, *Iwaniec UT*. Leptin Increases Particle-Induced Osteolysis in Female ob/ob Mice. *Sci Rep.* 2018 Oct 4;8(1):14790. PMID: 30287858
11. **Philbrick KA**, Wong CP, Kahler-Quesada AM, Olson DA, Branscum AJ, *Turner RT*, *Iwaniec UT*. Polyethylene particles inserted over calvarium induce cancellous bone loss in femur in female mice. *Bone Rep.* 2018 Jul 4;9:84-92. PMID: 30094298
12. **Philbrick KA**, Martin SA, Colagiovanni AR, Branscum AJ, *Turner RT*, *Iwaniec UT*., Effects of hypothalamic leptin gene therapy on osteopetrosis in leptin-deficient mice. *J Endocrinol.* 2018 Feb;236(2):57-68. PMID: 29191939

### **2017 Publications**

1. **McDougall M**, Choi J, Magnusson K, Truong L, Tanguay R, *Traber MG*. (2017) Chronic vitamin E deficiency impairs cognitive function in adult zebrafish via dysregulation of brain lipids and energy metabolism. *Free Radic Biol Med.* 112: 308-317. PMID: 28790013
2. **McDougall M**, Choi J, Truong L, Tanguay R, *Traber MG*. (2017) Vitamin E deficiency during embryogenesis in zebrafish causes lasting metabolic and cognitive impairments despite refeeding adequate diets. *Free Radic Biol Med.* 110: 250-260. PMID: 28645790
3. **McDougall M**, Choi J, Kim HK, *Bobe G*, Stevens JF, Cadenas E, Tanguay R, *Traber MG*. (2017) Lipid quantitation and metabolomics data from vitamin E-deficient and -sufficient zebrafish embryos from 0 to 120 hours-post-fertilization. *Data Brief.* 11: 432-441. PMID: 28280764
4. **McDougall M**, Choi J, Kim HK, *Bobe G*, Stevens JF, Cadenas E, Tanguay R, *Traber MG*. (2017) Lethal dysregulation of energy metabolism during embryonic vitamin E deficiency. *Free Radic Biol Med.* 104: 324-332. PMID: 28095320
5. **Lytle KA**, Wong CP, *Jump DB*. (2017) Docosahexaenoic acid blocks progression of western diet-induced nonalcoholic steatohepatitis in obese Ldlr<sup>-/-</sup> mice. *PLoS One* 12(4):e0173376. PMID: 28422962
6. Wang W, Gordon JL, **Philbrick KA**, Yang X, Branscum AJ, Löhr CV, Haschek WM, *Turner RT*, *Iwaniec UT*, Helferich WG. (2017) Low calcium diet increases 4T1 mammary tumor carcinoma cell burden and bone pathology in mice. *PLoS One.* 2017 Jul 27;12(7):e0180886. PMID: 28750038
7. *Turner RT*, **Philbrick KA**, Kuah AF, Branscum AJ, *Iwaniec UT*. (2017) Role of estrogen receptor signaling in skeletal response to leptin in female ob/ob mice. *J*

Endocrinol. 2017 Jun;233(3):357-367. PMID: 28428364

8. **Philbrick KA**, Wong CP, Branscum AJ, *Turner RT, Iwaniec UT*. (2017) Leptin stimulates bone formation in ob/ob mice at doses having minimal impact on energy metabolism. *J Endocrinol.* 232 (3): 461-474. PMID: 28057869.
9. **Keune JA**, Wong CP, Branscum AJ, *Iwaniec UT, Turner RT*. (2107) Bone Marrow Adipose Tissue Deficiency Increases Disuse-Induced Bone Loss in Male Mice. *Sci Rep.* 7:46325. PMID: 28402337
10. **Conley MN**, Roberts C, *Sharpton TJ, Iwaniec UT, Hord NG*. (2017) Increasing dietary nitrate has no effect on cancellous bone loss or fecal microbiome in ovariectomized rats. *Mol Nutr Food Res.* May;61 (5). PMID: 28087899
11. **Howes E**, Boushey CJ, Kerr DA, *Tomayko EJ, Cluskey M*. (2017) Image-Based Dietary Assessment Ability of Dietetics Students and Interns. *Nutrients* 9(2). PMID: 28178196
12. Nielsen SD, **Beverly RL**, *Dallas DC*. (2017) Peptides Released from Foremilk and Hindmilk Proteins by Breast Milk Proteases Are Highly Similar. *Front Nutr.* 4: 54. PMID: 29164128
13. Nielsen SD, **Beverly RL**, Qu Y, *Dallas DC*. (2017) Milk bioactive peptide database: A comprehensive database of milk protein-derived bioactive peptides and novel visualization. *Food Chem.* 232: 673-682. PMID: 28490127
14. *Newsom SA*, Miller BF, Hamilton KL, **Ehrlicher SE**, Stierwalt HD, *Robinson MM*. (2017) Long-term rates of mitochondrial protein synthesis are increased in mouse skeletal muscle with high-fat feeding regardless of insulin-sensitizing treatment. *Am J Physiol Endocrinol Metab.* 313 (5): E552-E562.

### **2016 Publications**

1. Lindenmaier LB, **Philbrick KA**, Branscum AJ, Kalra SP, *Turner RT, Iwaniec UT*, (2016) Hypothalamic Leptin Gene Therapy Reduces Bone Marrow Adiposity in ob/ob Mice Fed Regular and High-Fat Diets. *Front Endocrinol (Lausanne)*. Aug 16;7:110. PMID: 27579023
2. *Iwaniec UT, Philbrick KA*, Wong CP, Gordon JL, Kahler-Quesada AM, Olson DA, Branscum AJ, Sargent JL, DeMambro VE, Rosen CJ, *Turner RT*. (2016) Room temperature housing results in premature cancellous bone loss in growing female mice: implications for the mouse as a preclinical model for age-related bone loss. *Osteoporos Int.* 2016 Oct;27(10):3091-101. PMID: 27189604
3. **Gaddini GW**, *Turner RT, Grant KA, Iwaniec UT*. (2016) Alcohol: A Simple Nutrient with Complex Actions on Bone in the Adult Skeleton. *Alcohol Clin Exp Res.* Apr;40(4): 657- 71. PMID: 26971854
4. Kyrylkova K, *Iwaniec UT, Philbrick KA*, Leid M. (2016) BCL11B regulates sutural patency in the mouse craniofacial skeleton. *Dev Biol.* 2016 Jul 15;415(2):251-60. PMID: 26453795
5. **McDougall MQ**, Choi J, Stevens JF, Truong L, Tanguay RL, *Traber MG*. (2016) Lipidomics and H<sub>2</sub>(18)O labeling techniques reveal increased remodeling of DHA-

containing membrane phospholipids associated with abnormal locomotor responses in

$\alpha$ -tocopherol deficient zebrafish (*Danio rerio*) embryos. *Redox Biol.* Aug;8:165-74. PMID:26774753

6. **Lytle KA, Jump DB.** (2016) Is Western Diet-Induced Nonalcoholic Steatohepatitis in *Ldlr*<sup>-/-</sup> Mice Reversible? *PLoS One.* Jan 13;11(1): e0146942. PMID: 26761430
7. **Jump DB, Depner CM, Tripathy S, Lytle KA.** (2016) Impact of dietary fat on the development of non-alcoholic fatty liver disease in *Ldlr*<sup>-/-</sup> mice. *Proc Nutr Soc.* Feb75(1):1-9. PMID: 26282529.
8. Zhang Z, **Atwell LL**, Farris PE, *Ho E*, Shannon J. (2016) Associations between cruciferous vegetable intake and selected biomarkers among women scheduled for breast biopsies. *Public Health Nutr.* 19 (7): 1288-1295, PMID: 26329135

### **2015 Publications**

1. **Atwell LL**, Zhang Z, Mori M, Farris PE, Vetto JT, Naik AM, Oh KY, Thuillier P, *Ho E*, Shannon J. (2015) Sulforaphane bioavailability and chemopreventive activity in women scheduled for breast biopsy. *Cancer Prev Res (Phila).* 2015 Oct 28.
2. **Atwell LL**, Beaver LM, Shannon J, Williams DE, Dashwood RH, *Ho E.* (2015) Epigenetic Regulation by Sulforaphane: Opportunities for Breast and Prostate Cancer Chemoprevention. *Curr Pharmacol Rep.* Apr 1;1(2):102-111.
3. **Atwell LL**, Hsu A, Wong CP, Stevens JF, Bella D, Yu TW, Pereira CB, L  hr CV, Christensen JM, Dashwood RH, Williams DE, Shannon J, *Ho E.* (2015) Absorption and chemopreventive targets of sulforaphane in humans following consumption of broccoli sprouts or a myrosinase-treated broccoli sprout extract. *Mol Nutr Food Res.* Mar;59(3):424-33.
4. Choi J, Leonard SW, **Kasper K, McDougall M**, Stevens JF, Tanguay RL, *Traber MG.* (2015) Novel function of vitamin E in regulation of zebrafish (*Danio rerio*) brain lysophospholipids discovered using lipidomics. *J Lipid Res.* Jun;56(6):1182-90. PMID:25855633
5. **Philbrick KA, Turner RT**, Branscum AJ, Wong CP, *Iwaniec UT.* (2015), Paradoxical effects of partial leptin deficiency on bone in growing female mice. *Anat Rec (Hoboken).* Sep 15. doi: 10.1002/ar.23267. [Epub ahead of print] PMID: 26370912
6. **Gardini GW**, Grant KA, Woodall A, Stull C, Maddalozzo GF, Zhang B, *Turner RT, Iwaniec UT.* (2015) Twelve months of voluntary heavy alcohol consumption in malarhesus macaques suppresses intracortical bone remodeling. *Bone.* Feb;71:227-36. PMID: 25451322
7. *Turner RT, Philbrick KA*, Wong CP, Olson DA, Branscum AJ, *Iwaniec UT.* (2015) Morbid obesity attenuates the skeletal abnormalities associated with leptin deficiency in mice. *J Endocrinol.* Oct;223(1):M1-15. PMID: 24990938
8. Cappellozza BI, Cooke RF, Reis MM, Marques RS, Guarnieri Filho TA, Perry GA,

*JumpDB*, **Lytle KA**, Bohnert DW. (2015) Effects of protein supplementation frequency on

physiological responses associated with reproduction in beef cows. *J Anim Sci.* Jan;93(1):386-94. PMID:25412746

9. **Lytle KA, Depner CM, Wong CP, Jump DB.** (2015) Docosahexaenoic acid attenuates Western diet-induced hepatic fibrosis in *Ldlr<sup>-/-</sup>* mice by targeting the TGF $\beta$ -Smad3 pathway. *J Lipid Res.* (10):1936-46. PMID: 26315048
10. *Jump, D.B., Depner, C.M., Tripathy, S. and Lytle, K.A.* (2015), Potential for Dietary $\omega$ 3 Fatty Acids to Prevent Nonalcoholic Fatty Liver Disease and Reduce the Risk of Primary Liver Cancer. *Advances in Nutrition* 6 (6): 694-702. PMID 23528177
11. **Perera T, Young MR, Zhang Z, Murphy G, Colburn NH, Lanza E, Hartman TJ, Cross AJ, Bobe G.** (2015) Identification and monitoring of metabolite markers of dry bean consumption in parallel human and mouse studies. *Mol Nutr Food Res.* Apr;59(4):795-806.. PMID: 25641932

### **2014 Publications**

1. **Cialdella-Kam L, Guebels CP, Maddalozzo GF, Manore MM.** (2014) Dietary intervention restored menses in female athletes with exercise-associated menstrual dysfunction with limited impact on bone and muscle health. *Nutrients.* 6(8):3018-39.
2. **Guebels CP, Kam LC, Maddalozzo GF, Manore MM.** (2014) Active women before/after an intervention designed to restore menstrual function: resting metabolic rate and comparison of four methods to quantify energy expenditure and energy availability. *Int JSport Nutr Exerc Metab.* 24(1):37-46.
3. **Tripathy S, Lytle KA, Stevens RD, Bain JR, Newgard CB, Greenberg AS, Huang LS, Jump DB.** (2014) Fatty acid elongase-5 (Elovl5) regulates hepatic triglyceride catabolism in obese C57BL/6J mice. *J Lipid Res.* 55(7):1448-1464.
4. **Cooke RF, Cappellozza BI, Guarnieri Filho TA, Depner CM, Lytle KA, Jump DB, Bohnert DW, Cerri RL, Vasconcelos JL.** (2014) Effects of calcium salts of soybean oil on factors that influence pregnancy establishment in *Bos indicus* beef cows. *J Anim Sci.* 92(5):2239-50.
5. **Hall JA, Bobe G, Vorachek WR, Kasper K, Traber MG, Mosher WD, Pirelli GJ, Gamroth M.** (2014) Effect of supranutritional organic selenium supplementation on postpartum blood micronutrients, antioxidants, metabolites, and inflammation biomarkers in selenium-replete dairy cows. *Biol Trace Elem Res.* 161(3):272-87
6. **Farley SM, Leonard SW, Stevens JF, Traber MG.** (2014) Deuterium-labeled phyloquinone fed to  $\alpha$ -tocopherol-injected rats demonstrates sensitivity of low

phyloquinone-containing tissues to menaquinone-4 depletion. *Mol Nutr Food Res.*58(8):1610-9.

7. Miller GW, Truong L, Barton CL, Labut EM, **Lebold KM**, *Traber MG*, Tanguay RL. (2014) The influences of parental diet and vitamin E intake on the embryonic zebrafish transcriptome. *Comp Biochem Physiol Part D Genomics Proteomics.* 10:22-9.
8. **Lebold KM**, *Traber MG*. (2014) Interactions between  $\alpha$ -tocopherol, polyunsaturated fattyacids, and lipoxygenases during embryogenesis. *Free Radic Biol Med.* 66:13-9.
9. Turner RT, **Philbrick KA**, Wong CP, Olson DA, Branscum AJ, *Iwaniec UT*. (2014) Morbid obesity attenuates the skeletal abnormalities associated with leptin deficiency in mice. *J Endocrinol.* 223(1):M1-15.
10. Hawse JR, Pitel KS, Cicek M, **Philbrick KA**, Gingery A, Peters KD, Syed FA, Ingle JN, Suman VJ, *Iwaniec UT*, Turner RT, Spelsberg TC, Subramaniam M. (2014) TGF $\beta$  inducible early gene-1 plays an important role in mediating estrogen signaling in the skeleton. *J Bone Miner Res.* 29(5):1206-16.
11. Johnson TL, **Gaddini G**, Branscum AJ, Olson DA, Caroline-Westerlind K, *Turner RT, Iwaniec UT*. (2014) Effects of chronic heavy alcohol consumption and endurance exercise on cancellous and cortical bone microarchitecture in adult male rats. *Alcohol Clin Exp Res.* May;38(5):1365-72. PMID: 24512198
12. Howe SM, **Hand TM**, *Manore MM*. (2014) Exercise-trained men and women: role of exercise and diet on appetite and energy intake. *Nutrients.* Nov 10;6(11):4935-60. PMID: 25389897

### **2013 Publications**

1. **Lebold KM**, *Traber MG*. (2013) Interactions between  $\alpha$ -tocopherol, polyunsaturated fattyacids, and lipoxygenases during embryogenesis. *Free Radic Biol Med.* Aug 3. doi:pil: S0891-5849(13)00383-3.
2. **Lebold KM**, Löhner CV, Barton CL, Miller GW, Labut EM, Tanguay RL, *Traber MG*. (2013) Chronic vitamin E deficiency promotes vitamin C deficiency in zebrafish leading to degenerative myopathy and impaired swimming behavior. *Comp Biochem Physiol C Toxicol Pharmacol.* May;157(4):382-9.
3. Qu Y, **Lytle K**, *Traber MG*, Bobe G. (2013) Depleted serum vitamin E concentrations precede left displaced abomasum in early-lactation dairy cows. *J Dairy Sci.* May;96(5):3012-22.
4. **Depner CM**, **Philbrick KA**, *Jump DB*. (2013) Docosahexaenoic acid attenuates hepatic inflammation, oxidative stress, and fibrosis without decreasing hepatosteatosis in a *Ldlr*<sup>-/-</sup> mouse model of western diet-induced nonalcoholic steatohepatitis. *J Nutr.* Mar;143(3):315-23.

5. *Jump DB, Tripathy S, Depner CM.* (2013) Fatty acid-regulated transcription factors in the liver. *Annu Rev Nutr.* 33:249-69.
6. **Depner CM,** Traber MG, Bobe G, Kensicki E, Bohren KM, Milne G, Jump DB. (2013) A metabolomic analysis of  $\omega$ -3 fatty acid-mediated attenuation of western diet-induced nonalcoholic steatohepatitis in *Ldlr*<sup>-/-</sup> mice. *PLoS One.* 8(12):e83756.
7. *Turner RT, Kalra SP, Wong CP, Philbrick KA, Lindenmaier LB, Boghossian S, Iwaniec UT.* (2013) Peripheral leptin regulates bone formation. *J Bone Miner Res.* Jan;28(1):22-4.
8. **Tripathy S, Jump DB.** (2013) Elov15 regulates the mTORC2-Akt-FOXO1 pathway by controlling hepatic cis-vaccenic acid synthesis in diet-induced obese mice. *J Lipid Res.* Jan;54(1):71-84.
9. Shorey LE<sup>1</sup>, Madeen EP, **Atwell LL,** Ho E, Löhr CV, Pereira CB, Dashwood RH, *Williams DE.* (2013) Differential modulation of dibenzo[def,p]chrysene transplacental carcinogenesis: maternal diets rich in indole-3-carbinol versus sulforaphane. *Toxicol Appl Pharmacol.* 270(1):60-9.
10. **Lebold KM,** Kirkwood JS, Taylor AW, Choi J, Barton CL, Miller GW, La Du J, Jump DB, Stevens JF, Tanguay RL, *Traber MG.* (2013) Novel liquid chromatography-mass spectrometry method shows that vitamin E deficiency depletes arachidonic and docosahexaenoic acids in zebrafish (*Danio rerio*) embryos. *Redox Biol.* 2:105-113.
11. **Farley SM,** Leonard SW, Taylor AW, Birringer M, Edson KZ, Rettie AE, *Traber MG.* (2013)  $\omega$ -Hydroxylation of phylloquinone by CYP4F2 is not increased by  $\alpha$ -tocopherol. *Mol Nutr Food Res.* 57(10):1785-93

### **2012 Publications**

1. **Marrone JA,** Maddalozzo GF, Branscum AJ, Hardin K, **Cialdella-Kam L, Philbrick KA,** Breggia AC, Rosen CJ, *Turner RT, Iwaniec UT.* (2012) Moderate alcohol intake lowers biochemical markers of bone turnover in postmenopausal women. *Menopause.* Sep;19(9):974-9.
2. Miller GW, Ulatowski L, Labut EM, **Lebold KM,** Manor D, Atkinson J, Barton CL, Tanguay RL, *Traber MG.* (2012) The  $\alpha$ -tocopherol transfer protein is essential for vertebrate embryogenesis. *PLoS One* 7(10):e47402.
3. **Lebold KM,** Ang A, *Traber MG,* Arab L. (2012) Urinary  $\alpha$ -carboxyethyl hydroxychroman can be used as a predictor of  $\alpha$ -tocopherol adequacy, as demonstrated in the Energetics Study. *Am J Clin Nutr.* Oct;96(4):801-9.
4. Asleh R, Nakhoul FM, Miller-Lotan R, Awad H, Farbstein D, Levy NS, Nakhoul N, Iancu TC, Manov I, Laue M, *Traber MG, Lebold KM,* Levy AP. (2012) Poor lysosomal membrane integrity in proximal tubule cells of haptoglobin 2-2 genotype mice with diabetes mellitus. *Free Radic Biol Med.* Aug 15;53(4):779-86.

5. **Farley SM**, Leonard SW, Labut EM, Raines HF, Card DJ, Harrington DJ, Mustacich DJ, *Traber MG*. (2012) Vitamin E decreases extra-hepatic menaquinone-4 concentrations in rats fed menadione or phyloquinone. *Mol Nutr Food Res*. Jun;56(6):912-22.
6. **Sweat W**, *Manore MM*. (2012) Too Good to Be True? Eating More and Losing Weight with a Low Energy-Dense Diet. *ACSM's Health and Fitness Journal* 16(4):22-28.
7. **Depner CM**, Torres-Gonzalez M, **Tripathy S**, Milne G, *Jump DB*. (2012) Menhaden oil decreases high-fat diet-induced markers of hepatic damage, steatosis, inflammation, and fibrosis in obese *Ldlr<sup>-/-</sup>* mice. *J Nutr*. Aug;142(8):1495-503.
8. Tal TL, Franzosa JA, Tilton SC, **Philbrick KA**, *Iwaniec UT*, *Turner RT*, Waters KM, Tanguay RL. (2012) MicroRNAs control neurobehavioral development and function in zebrafish. *FASEB J*. Apr;26(4):1452-61.
9. Kirkwood JS, **Lebold KM**, Miranda CL, Wright CL, Miller GW, Tanguay RL, Barton CL, *Traber MG*, Stevens JF. (2012) Vitamin C deficiency activates the purine nucleotide cycle in zebrafish. *J Biol Chem*. Feb 3;287(6):3833-41.
10. Miller GW, Labut EM, **Lebold KM**, Floeter A, Tanguay RL, *Traber MG*. (2012) Zebrafish (*Danio rerio*) fed vitamin E-deficient diets produce embryos with increased morphologic abnormalities and mortality. *J Nutr Biochem*. May;23(5):478-86.
11. *Jump DB*, **Depner CM**, **Tripathy S**. (2012) Omega-3 fatty acid supplementation and cardiovascular disease. *J Lipid Res*. Dec;53(12):2525-45.