

Research Papers Published by NGP Graduate Students

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

July 1, 2023 – June 30, 2024

1. **Bouranis JA**, Beaver LM, Wong CP, Choi J, Hamer S, Davis EW, Brown KS, Jiang D, Sharpton TJ, Stevens JF, *Ho E*. Sulforaphane and Sulforaphane-Nitrile Metabolism in Humans Following Broccoli Sprout Consumption: Inter-individual Variation, Association with Gut Microbiome Composition, and Differential Bioactivity. *Mol Nutr Food Res*. 2024 Feb;68(4):e2300286. doi: 10.1002/mnfr.202300286. Epub 2023 Dec 24. PMID: 38143283
2. **Bouranis JA**, Wong CP, Beaver LM, Uesugi SL, Papenhausen EM, Choi J, Davis EW 2nd, Da Silva AN, Kalengamaliro N, Chaudhary R, Kharofa J, Takiar V, Herzog TJ, Barrett W, *Ho E*. Sulforaphane Bioavailability in Healthy Subjects Fed a Single Serving of Fresh Broccoli Microgreens. *Foods*. 2023 Oct 15;12(20):3784. doi: 10.3390/foods12203784. PMID: 37893677
3. **Jamieson PE**, Smart EB, Bouranis JA, Choi J, Danczak RE, Wong CP, Paraiso IL, Maier CS, *Ho E*, Sharpton TJ, Metz TO, Bradley R, *Stevens JF*. Gut enterotype-dependent modulation of gut microbiota and their metabolism in response to xanthohumol supplementation in healthy adults. *Gut Microbes*. 2024 Jan-Dec;16(1):2315633. doi: 10.1080/19490976.2024.2315633. Epub 2024 Feb 15. PMID: 38358253
4. **Keune JA**, Wong CP, Branscum AJ, Menn SA, *Iwaniec UT, Turner RT*. Bone Marrow Adipose Tissue Is Not Required for Reconstitution of the Immune System Following Irradiation in Male Mice. *Int J Mol Sci*. 2024 Feb 6;25(4):1980. doi: 10.3390/ijms25041980. PMID: 38396660 Free PMC article.
5. Kuah AH, **Sattgast LH**, Grant KA, Gonzales SW, Khadka R, Damrath JG, Allen MR, Burr DB, Wallace JM, Maddalozzo GF, Benton ML, Beaver LM, Branscum AJ, *Turner RT, Iwaniec UT*. Six months of voluntary alcohol consumption in male cynomolgus macaques reduces intracortical bone porosity without altering mineralization or mechanical properties. *Bone*. 2024 Aug;185:117111. doi: 10.1016/j.bone.2024.117111. Epub 2024 Apr 26. PMID: 38679220
6. Zhakubayev A, **Sattgast LH**, Lewis AD, Grant KA, *Turner RT, Iwaniec UT*, Benton ML. Ethanol consumption in non-human primates alters plasma markers of bone turnover but not tibia architecture. *Sci Rep*. 2024 Jun 19;14(1):14137. doi: 10.1038/s41598-024-65021-4. PMID: 38898161 Free PMC article.
7. **Spooner MH**, Garcia-Jaramillo M, Apperson KD, Löhr CV, *Jump DB*. Time course of western diet (WD) induced nonalcoholic steatohepatitis (NASH) in female and male Ldlr^{-/-} mice. *PLoS One*. 2023 Oct 11;18(10):e0292432. doi: 10.1371/journal.pone.0292432. eCollection 2023. PMID: 37819925
8. Padiadpu J, **Spooner MH**, Li Z, Newman N, Löhr CV, Apperson KD, Dzutsev A, Trinchieri G, Shulzhenko N, Morgun A, *Jump DB*. Early transcriptome changes associated with western diet induced NASH in Ldlr^{-/-} mice points to activation of hepatic macrophages and an acute phase response. *Front Nutr*. 2023 Aug 7;10:1147602. doi: 10.3389/fnut.2023.1147602. eCollection 2023. PMID: 37609485

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 multiomic 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/s13326-02300283-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-COVID19 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.crf.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-nutr061021-030223. Epub ahead of print. PMID: 37207355.
14. **Alonso Street EM**, Grutzmacher S, Branscum A, Smit E. Self-Perceived Health and Chronic Conditions Among Users of Supplements With and Without Botanical Ingredients: Findings from the 2009-2014 National Health and Nutrition Examination Survey. *J Diet Suppl*. 2022;19(6):689-703. doi: 10.1080/19390211.2021.1924336. Epub 2021 May 25. PMID: 34033728

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. *Virol J*. 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, Korashy 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, Mouglin 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 nutr-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 γ . *Elife*. 2021 Jun 15;10:e66398. doi: 10.7554/eLife.66398. PMID: 34128467; PMCID: PMC8205491.
17. **Perera T**, Russo C, Takata Y, Bobe G. Legume Consumption Patterns in US Adults: National Health and Nutrition Examination Survey (NHANES) 2011-2014 and Beans, Lentils, Peas (BLP) 2017 Survey. *Nutrients*. 2020 Apr 27;12(5):1237. doi: 10.3390/nu12051237. PMID: 32349355 Free PMC article.

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 KA¹, Harris NL², Gargano M³, Matentzoglou N⁴, Unni D², Brush M⁵, Keith D¹, Conlin T¹, Vasilevsky N⁵, Zhang XA³, Balhoff JP⁶, Babb L⁷, Bello SM⁸, Blau H³, Bradford Y⁹, Carbon S², Carmody L³, **Chan LE**¹⁰, Cipriani V¹¹, Cuzick A¹², Rocca MD¹³, Dunn N², Essaid S⁵, Fey P¹⁴, Grove C¹⁵, Gourdiine JP⁵, Hamosh A¹⁶, Harris M¹⁷, Helbig J^{18,19,20,21}, Hoatlin M²², Joachimiak M², Jupp S⁴, Lett KB¹, Lewis SE², McNamara C²³, Pendlington ZM⁴, Pilgrim C¹⁷, Putman T¹, Ravanmehr V³, Reese J², Riggs E²⁴, Robb S²⁵, Roncaglia P⁴, Seager J¹², Segerdell E²⁶, Similuk M²⁷, Storm AL¹³, Thaxon C²⁸, Thessen A¹, Jacobsen JOB¹¹, McMurry JA¹⁰, Groza T²³, Köhler S²⁹, Smedley D¹¹, Robinson PN³, Mungall CJ², *Haendel MA*^{1,5}, Munoz-Torres MC¹, Osumi-Sutherland D⁴. (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 H₂O₂ 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, ω3) Mediated Attenuation of Western Diet Induced Nonalcoholic Steatohepatitis in Male *Ldlr*^{-/-} Mice. *Metabolites*. 2019 Oct 28;9(11). PMID:31661783
8. *Garcia-Jaramillo M, Spooner MH, Löhr CV, Wong CP, Zhang W, Jump DB.* (2019) Lipidomic and transcriptomic analysis of western diet-induced nonalcoholic steatohepatitis(NASH) in female *Ldlr*^{-/-} 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, Indra AK, 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, Bobe 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
12. *Jorgensen JM, Crespo-Bellido M, Dewey KG.* Variation in hemoglobin across the life cycle and between males and females. *Ann N Y Acad Sci*. 2019 Aug;1450(1):105-125. doi: 10.1111/nyas.14096. Epub 2019 May 10. PMID: 31074518 Review.

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
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