

CURRICULUM VITAE

University of Idaho

Name: Michelle (Shelley) McGuire, PhD

Date: 7/18/24

Rank or Title: Director and Professor

School: Margaret Ritchie School of Family and Consumer Sciences

Office Location: Mary Hall Niccolls Building 105B

Campus Zip Code: 3183

Office Phone: 208.885.6698

Email: smcguire@uidaho.edu

Website: www.uidaho.edu/cals/fcs

Date of First Employment at the University of Idaho: 8/13/2018

Dates of Tenure: 2004 (Washington State University); 2018 (University of Idaho)

Dates of Present Rank or Title: 2016 (Professor)/2018 (Director)

ACADEMIC BACKGROUND

PhD, Cornell University, 1994 (human nutrition; minors in international nutrition and physiology)

MS, University of Illinois, 1988 (nutritional sciences)

BS, University of Illinois, 1986 (*cum laude* & Phi Beta Kappa; general biology)

PROFESSIONAL EXPERIENCE

Teaching, Extension, and Research Appointments

2018-present	Professor, Margaret Ritchie School of Family and Consumer Sciences, University of Idaho
2018-present	Affiliate Professor, School of Biological Sciences, Washington State University
2017-2018	Professor, School of Biological Sciences, WSU (1.0 FTE)
2016-2017	Professor, School of Biological Sciences, WSU (0.75 FTE)
2014-2018	Affiliate Faculty, Paul G. Allen School of Global Animal Health, WSU
2011-2016	Associate Professor, School of Biological Sciences, WSU (0.75 FTE)
2010-2011	Associate Professor, School of Biological Sciences, WSU (0.6 FTE)
2009-2010	Associate Professor, School of Molecular Biosciences, WSU (0.6 FTE)
2008-2009	Associate Professor, College of Pharmacy, WSU (0.6 FTE)
2004-2008	Associate Professor, Department of Food Science and Human Nutrition, WSU (0.6 FTE)
1998-2003	Assistant Professor, Department of Food Science and Human Nutrition, WSU (0.6 FTE)

Academic Administrative Appointments

2018-present Director, Margaret Ritchie School of Family and Consumer Sciences, University of Idaho

Consulting and Advisory

International Milk Consortium (Bill and Melinda Gates Foundation) Advisory Committee. 2019-present.

Dannon Maternal and Pediatric Nutrition Advisory Board. 2017-present.

Pacific Northwest National Laboratory Microbiomes in Transition (MIINT) External Advisory Board. 2018-2020.

American Society for Nutrition. Consulting activities related to science communications. 2006-2018

Lallimand. Consulting activities related to designing, interpreting, and writing up clinical nutrition research projects related to probiotics and women's health. 2014-2016.

Abbott Nutritionals. Consulting activities related to designing, interpreting, and writing up clinical nutrition research

projects. 2011-2015.

Provident Clinical Research and Consulting. Consulting activities related to designing, interpreting, and writing up clinical nutrition research projects. 2009-2013.

Kraft Foods. Consulting activities related to providing advice concerning a variety of nutrition-related topics. 2008-2012.

National Institutes of Health, Office of Dietary Supplements. Consulting activities related to nutrition-related lay literature and evidence-based reviews of the efficacy and safety of dietary supplements. 2006-2012.

AWARDS AND HONORS

2023	University of Idaho Excellence in Research and Creative Activity Award
2022	National Academy of Medicine, elected member
2022	Idaho Breastfeeding Coalition Excellence in Breastfeeding Leadership Award
2022	University of Idaho College of Agricultural and Life Sciences R.C. Heimsch Research Award
2018	American Society for Nutrition Excellence in Nutrition Education Award
2016	Washington State University College of Arts and Sciences Thomas E. Lutz Teaching Excellence Award
2002	International Society for Research in Human Milk and Lactation Ehrlich-Koldovsky Award (emerging investigator)
2000	International Life Sciences Institute Future Leader Award
1986	Phi Beta Kappa Honorary (Univ. of Illinois chapter)

SCHOLARSHIP

h-Index: 51

Publications

1 – corresponding or senior author; 2 – designed study; 3 – obtained funding for study; 4 – oversaw conduct of study; 5 – contributing participant in associated workshop or activity; 6 – major role in manuscript preparation

Refereed Journal Articles: in preparation

Boothman S, McGuire MA, Williams JE, Lackey KA, Foster JA, Sellen DW, Kamau-Mbuthia E, Kamundia E, Mbugua S, Moore SE, Prentice AM, Kvist LJ, Otoo F, Rodríguez JM, Ruíz L, Pareja RG, Bode L, Beerman KA, Price WJ, Piaskowski J, Meehan CL, **McGuire MK**. Relating maternal dietary patterns to variation in milk microbiome: The INSPIRE Study. (1,2,3,4,6)

Gogel AC, Williams J, McGuire M, Pace R, Wu L, Baker S, West K, Christian P, Shaikh S, Ali H, Price W, Schulze K, **McGuire MK**. Associations between milk microbiome and infant anthropometrics in rural Bangladesh. (1,2,3)

Meehan CL, Pace RM, Murdoch G, Caffé B, Williams JE, McGuire MA, **McGuire MK**. Infant-to-mother microbial transfer during breastfeeding. (2,3)

Refereed Journal Articles: in review

Reyes SM, Allen DL, Williams JE, McGuire MA, **McGuire MK**, Rasmussen KM, Hay AG. Pumping and hygiene practices are associated with variation in the bacterial composition of pumped human milk. Manuscript in review with Am J Clin Nutr. (2,6)

Refereed Journal Articles: in press or published

1. Ericson J, **McGuire MK**, Svärd A, Hårdstedt M. (2024) Total nitrite and nitrate concentration in human milk and saliva during the first 60 days postpartum—A pilot study. *Biomedicines*. 2024; 12(6):1195. <https://doi.org/10.3390/biomedicines12061195>. (2,6)
2. Holdsworth EA, Berim A, Gang DR, Williams JE, Smith CB, Caffé B, Brooks O, Barbosa-Leiker C, McGuire MA, **McGuire MK**, Meehan CL. (2024) Human milk cannabinoid concentrations and associations with maternal factors: the LAC study. *Breastfeeding Medicine*. 19(7):515-524. doi: 10.1089/bfm.2024.0021. (2,3,6)
3. Pace RM, King-Nakaoka EA, Morse AG, Pascow KJ, Winquist A, Caffé B, Navarrete AD, Lackey KA, Pace CDW,

- Fehrenkamp BD, Smith CB, Martin MA, Barbosa-Leiker C, Ley SH, McGuire MA, Meehan CL, Williams JE, **McGuire MK**. (2024) Prevalence and duration of SARS-CoV-2 fecal shedding in breastfeeding dyads following maternal COVID-19 diagnosis. *Frontiers in Immunology*. 21:15:1329092. doi: 10.3389/fimmu.2024.1329092. (1,2,3,4,6)
4. Castro Navarro I, McGuire MA, Williams JE, Holdsworth EA, Meehan CL, **McGuire MK**. (2024) Maternal cannabis use during lactation and potential impacts on human milk composition and production: a narrative review. *Advances in Nutrition*. 15:100196. <https://doi.org/10.1016/j.advnut.2024.100196>. (1,6)
 5. Smith CB, Schmidt JL, Holdsworth EA, Caffè BQ, Brooks O, Williams JE, Gang DR, McGuire MA, **McGuire MK**, Barbosa-Leiker C, Meehan CL. (2024) Cannabis use during lactation: A mixed-methods investigation of decision-making and perceptions of risk among women who frequently use cannabis. *J Cannabis Res*. Cannabis use, decision making, and perceptions of risk among breastfeeding individuals: the Lactation and Cannabis (LAC) Study. *J Cannabis Res* 6, 6. <https://doi.org/10.1186/s42238-023-00212-w>. (2,3,4,6)
 6. Holdsworth EA, Williams JE, Pace RM, Lane AA, Garstein M, McGuire MA, **McGuire MK**, Meehan CL. (2023) Breastfeeding patterns are associated with human milk microbiome composition: the MIMBES study. *PLoS ONE* 18(8), e0287839. (2,3,6)
 7. Caffé B, Fehrenkamp BD, Williams JE, Pace RM, Lackey KL, Ruíz L, Rodríguez JM, McGuire MA, Foster JA, Sellen DW, Kamau-Mbuthia EW, Kamundia EW, Mbugua S, Moore SE, Prentice AM, Kvist LJ, Otoo GE, Pareja RG, Bode L, Gebeyehu D, Gindola DK, Boothman S, Flores K, **McGuire MK**, Meehan CL. (2023) Variation in human milk immune factors by maternal nutritional status and infant sex: The INSPIRE Study. *Am J Hum Biol*. 35 (11), e23943. (3,6)
 8. Tabb DL, Jeong K, Druart K, Gant MS, Brown KA, Nicora C, Zhou M, **McGuire MK**, Chamot-Rooke J. (2023) Comparing top-down proteoform identification: deconvolution, PrSM overlap, and PTM detection. *J Proteome Research*. DOI: 10.1021/acs.jproteome.2c00673 (3,4)
 9. Smilowitz JT, Allen L, Dallas D, McManaman J, Raiten DJ, Rozga M, Sela DA, Seppo A, Williams JE, Young B, **McGuire MK**. (2023) Ecologies, synergies, and biological systems shaping human milk composition—a report from Breastmilk Ecology and the Genesis of Infant Nutrition (BEGIN) Working Group 2. *Am J Clin Nutr*, 117, S28-S42. (1,6)
 10. Couvillion SP, Mostoller KE, Williams JE, Pace RM, Stohel IL, Peterson HK, Nicolra CD, Nakayusa ES, Webb-Robertson B-JM, McGuire MA, **McGuire MK**, Metz TO. (2023) Interrogating the milk microbiome in the multi-omics era. *Front Microbiol*. 14:1105675. doi: 10.3389/fmicb.2023.1105675. (3,6)
 11. Donovan SM, Abrams SA, Azad MB, Belfort MB, Bode L, Carlson SE, Dallas DC, Hettinga K, Jarvinen-Seppo K, Kim J, Lebrilla CB, **McGuire MK**, Sela DA, Neu J. (2022) Summary of the joint NIH and FDA workshop titled Exploring the Science Surrounding the Safe Use of Bioactive Ingredients in Infant Formula: Considerations for an Assessment Framework. *J Pediatr*, doi.org/10.1016/j.jpeds.2022.11.027. (5,6)
 12. Pace RM, Pace CDW, Fehrenkamp BD, Price WJ, Lewis M, Williams JE, McGuire MA, **McGuire MK**. (2022) Sodium and potassium concentrations and somatic cell count of human milk produced in the first six weeks postpartum and their suitability as biomarkers of clinical and subclinical mastitis. *Nutrients*, 14, 4708. <https://doi.org/10.3390/nu14224708>. (1,2,3,4,6)
 13. Wilk V, **McGuire MK**, Roe A. (2022) Early life beef consumption patterns are related to cognitive outcomes at 1-5 years of age. *Nutrients*, 14(21): 4497. doi: 10.3390/nu14214497. (2,3,6)
 14. Martin MA, Keith M, Pace RM, Williams JE, Ley SH, Barbosa-Leiker C, Caffè B, Smith CB, Kunkle A, Lackey KA, Navarrete AD, Pace CDW, Gogel AC, Eisenberg DTA, Fehrenkamp BD, McGuire MA, **McGuire MK**, Meehan CL, Brindle EB. (2022) SARS-CoV-2 specific antibody trajectories in mothers and infants over two months following maternal infection. *Front Immunol*, 13:1015002. doi: 10.3389/fimmu.2022.1015002 (2,3,4,6)
 15. Mogaka JN, Owuor PM, Odhiambo S, Waterman S, **McGuire MK**, Fuchs JF, Attia S. (2022) Investigating the impact of *Moringa oleifera* on Kenyan maternal and infant health: A cluster randomized single-blinded controlled trial protocol. *J Pediatr Gastroenterol Nutr*. JPGN Reports: Aug 2022; 3(3), e237. doi: 10.1097/PG9.0000000000000237 (6)
 16. Pace RM, Williams JE, Jarvinen KM, Meehan CL, Martin MA, Ley SH, Barbosa-Leiker C, Andres A, Yeruva L, Belfort MB, Caffè B, Navarrete AD, Lackey KA, Pace CDW, Gogel AC, Fehrenkamp BD, Klein M, Young B, Rosen-Carole C, Diaz N, Gaw SL, Flaherman V, McGuire MA, **McGuire MK**, Seppo A. (2021) Milk from women diagnosed with

- COVID-19 does not contain SARS-CoV-2 RNA but has persistent levels of SARS-CoV-2-specific IgA antibodies. *Front Immunol*, 12, 801797. (1,2,3,4,6)
17. COVID-19 Research Prioritization Group on MNCAH. (2021) A global research prioritization exercise on COVID-19 for maternal, newborn, child and adolescent health. *J Global Health*, 11:05026. doi: 10.7189/jogh.11.04071. (5,6)
 18. **McGuire MK**, McGuire MA. (2021) Microbiomes and childhood malnutrition: What is the evidence? *Ann Nutr Metabol*, Aug 30:1-13. doi: 10.1159/000519001. (1,6)
 19. Reyes SM, Allen DL, Williams JE, McGuire MA, **McGuire MK**, Hay AG, Rasmussen KM. (2021) Pumping supplies alter the microbiome of pumped human milk: An in-home, randomized, crossover trial. *Am J Clin Nutr*. 2021 114:1960-1970. (2,6)
 20. Lackey KA, Fehrenkamp BD, Pace RM, Williams JE, Meehan CL, McGuire MA, **McGuire MK**. (2021) Breastfeeding beyond twelve months: Is there evidence for health impacts? *Ann Rev Nutr*. 2021 41: 283-308. (1,6)
 21. Pace RM, Williams JE, Robertson B, Lackey KA, Meehan CL, Price WJ, Foster JA, Sellen DW, Kamau-Mbuthia EW, Kamundia EW, Mbugua S, Moore SE, Prentice AM, Kita DG, Kvist LJ, Otoo GE, Ruiz L, Rodriguez JM, Pareja RG, McGuire MA, Bode L, **McGuire MK**. (2021) Variation in human milk composition is related to differences in milk and infant fecal microbial communities. *Microorganisms*. 9, 1153. <https://doi.org/10.3390/microorganisms9061153>. (1,2,3,4,6)
 22. Williams JE, **McGuire MK**, Meehan CL, McGuire MA, Brooker SL, Kamau-Mbuthia EW, Kamundia EW, Mbugua S, Moore SE, Prentice AM, Otoo GE, Rodriguez JM, Pareja RG, Foster JA, Sellen DW, Kita DG, Neiberghs HL, Murdoch BM. (2021) Key genetic variants associated with variation of milk oligosaccharides from diverse human populations. *Genomics*, 113:1867-1875. (2,3,4,6)
 23. Ruiz L, Rubio CA, Carral CG, Quintana EJ, Lackey KA, **McGuire MK**, Meehan CL, Foster JA, Sellen DW, Kamau EW, Kamundia EW, Mbugua S, Moore SE, Prentice AM, Gindola D, Otoo GE, Pareja RG, Bode L, McGuire MA, Williams J, Rodriguez JM. (2021) Comparison of two approaches for the metataxonomic analysis of the human milk microbiome. *Front Cell Infect Microbiol*. 11:622550. doi: 10.3389/fcimb.2021.622550. (2,3,4)
 24. **McGuire MK**, Randall AZ, Seppo AE, Jarvinen-Seppo K, Meehan CL, Gindola D, Williams J, Sellen DW, Kamau EW, Kamundia EW, Mbugua S, Moore SE, Prentice AM, Foster JA, Otoo GE, Rodriguez JM, Pareja RG, Bode L, McGuire MA, Campo JJ. (2021) Multipathogen analysis of IgA and IgG antigen specificity for selected pathogens in milk produced by women from diverse geographical regions: The INSPIRE Study. *Front. Immunol*. 11:614372. doi: 10.3389/fimmu.2020.614372 (1,2,3,4,6)
 25. Pace R, Williams JE, Jarvinen K, Belfort M, Pace C, Lackey K, Gogel A, Young B, McGuire MA, Seppo A, **McGuire MK**. (2021) COVID-19 and human milk: SARS-CoV-2, antibodies, and neutralizing capacity. *MBio*, 12(1):e03192-20. (1,2,3,4,6)
 26. **McGuire MK**, Seppo A, Goga A, Buonsenso D, Collado MC, Donovan SM, Muller JA, Ofman G, Monroy-Valle M, O'Connor D, Pace RM, Van de Perre P. (2021) Best practices for human milk collection for COVID-19 research. *Breastfeeding Medicine*, 16(1):1-10. (1,2,6)
 27. **McGuire MK**, McGuire M. (2021) Mapping the human milk microbiome: impetus for a long-awaited renaissance in maternal and infant nutrition research? (invited commentary) *J Nutr*, 151(2): 278-80. (1,6)
 28. Committee on Scanning for New Evidence on the Nutrient Content of Human Milk (members of committee: Rasmussen KM, Azad M, Bode L, **McGuire MK**, Nommsen-Rivers L, Saldanha IJ). (2020) Scanning for New Evidence on the Nutrient Content of Human Milk. A Process Model for Determining Age-Specific Nutrient Requirements. Consensus Study Report. Rasmussen, Yaktine, Vorosmart, ed. Washington, DC: The National Academies Press. (2,5,6)
 29. Azad MB, Nickel NC, Bode L, Brockway M, Brown A, Chambers C, Goldhammer C, Hinde K, **McGuire M**, Munblit D, Patel AL, Perz-Escamilla R, Rasmussen KM, Shenker N, Young BE, Zuccolo L. (2020) Breastfeeding and the origins of health – interdisciplinary perspectives and priorities. *Matern Child Nutr*, 2020;e13109. <https://doi.org/10.1111/mcn.13109>. (5,6)
 30. Lackey, KA, Pace RM, Williams JE, Bode L, Donovan S, Jarvinen KM, Seppo AE, Raiten DJ, Meehan CL, McGuire MA, **McGuire MK**. (2020) SARS-CoV-2 and human milk: what is the evidence? *Matern Child Nutr*, 2020;e13032 (1,6)
 31. Demmelmair H, Jimenez E, Collado MC, Salminen S, **McGuire MK**. (2020) Maternal and perinatal factors associated

- with the human milk microbiome. *Curr Dev Nutr*, 4(4):nzaa027 doi.org/10.1093/cdn/nzaa027. (1,6)
32. Ruiz L, Garcia-Carral C, Checa MA, Minguez J, Legarra C, **McGuire MK**, Meehan CL, Bode L, Fernandez L, Espinosa-Martos I, Rodriguez JM, Corsorcio INSPIRE. (2020) Proyecto internacional INSPIRE: ¿Qué es normal en la leche humana? (II). Compuestos inmunológicos solubles. *Acta Pediatr Esp*. 78(1-2):e38-e46. (2,3,4)
 33. Casavale KO, Ahuja KJC, Wu X, Li Y, Quam J, Olson R, Pehrsson P, Allen L, Balentine D, Hanspal M, Hayward D, Hines EP, McClung JP, Perrine CG, Brown Belfort M, Dallas D, German B, Kim J, McGuire M, **McGuire M**, Morrow A, Neville M, Nommsen-Rivers L, Rasmussen KM, Zempleni J, Lynch CJ. (2019) NIH workshop on human milk composition: summary and visions. *Am J Clin Nutr*, 2019 Jul 5. pii: nqz123. doi: 10.1093/ajcn/nqz123. (5,6)
 34. Heimbürger DC, Hermann M, McClung JP, **McGuire MK**, Rasmussen KM, Troy LM, Young SL. (2019) The early-career Dannon Institute Leadership Institute: History, programmatic features, outcomes, and perspectives. *Nutr Today*, 2019;54(4):165Y169. (5,6)
 35. **McGuire MK**, Meehan CL, Ruiz L, Minguez J, Legarra K, Checa MA, Manzano S, Frenandez L, Rodriguez JM, Bode L, Corsorcio INSPIRE. (2019) Proyecto internacional INSPIRE: ¿Qué es normal en la leche humana? (I). Oligosacáridos de la leche humana. *Acta Pediatr Esp*. 77(11-12): 188-195. (2,3,4)
 36. Williams JE, Carrothers JM, Lackey KA, Beatty NF, Brooker SL, Peterson HK, Steinkamp KM, York MA, Shafii B, Price WJ, McGuire MA, **McGuire MK**. (2019) Strong multivariate relationships exist among milk, oral, and fecal microbiomes in mother-infant dyads during the first six months postpartum. *J Nutr*, 149(6):902-914. (1,2,3,4,6)
 37. Lane AA, **McGuire MK**, McGuire MA, Williams JE, Lackey KA, Hagen EH, Kaul A, Gindola D, Gebeyehu D, Flores KE, Foster JA, Sellen DW, Kamau-Mbuthia E, Kamundia EW, Mbugua S, Moore SE, Prentice AM, Kvist LJ, Otoo G, Rodriguez JM, Ruia L, Pareja RG, Bode L, Price WJ, Meehan CL. (2019) Household composition and the infant fecal microbiome: the INSPIRE study. *Am J Phys Anthropol*, 1–14. <https://doi.org/10.1002/ajpa.23843>. (2,3,4,6)
 38. Lackey KA, Williams JE, Meehan CL, Zachek JA, Benda ED, Price WJ, Foster JA, Sellen DW, Kamau-Mbuthia EW, Kamundia EW, Mbugua S, Moore SE, Prentice AM, Gindola D, Kvist LJ, Otoo GE, Jimenez E, Ruiz L, Rodriguez JM, Pareja RG, Bode L, McGuire MA, **McGuire MK**. (2019) What's normal? Microbiomes in human milk and infant feces are related to each other but vary geographically. *Front Nutr*, 6:45. doi: 10.3389/fnut.2019.00045. (1,2,3,4,6)
 39. Reeves WR, **McGuire MK**, Vicini J, Stokes M. (2019) Assessing the safety of pesticides in food: how current regulations protect health. *Adv Nutr*, 10(1):80-88. (6)
 40. Meehan CL, Lackey KA, Hagen EH, Williams JE, Roulette J, Helfrecht C, McGuire MA, **McGuire MK**. (2018) Social networks, cooperative breeding, and the human milk microbiome. *Am J Hum Biol*, 2018 Apr 26:e23131. doi: 10.1002/ajhb.23131. (2,3,6)
 41. Lackey KA, Williams JE, Price WJ, Carrothers JM, Brooker SL, Shafii B, McGuire MA, **McGuire MK**. (2017) Comparison of commercially-available preservatives for maintaining the integrity of bacterial DNA in human milk. *J Microbiol Methods*, Oct;141:73-81. (1,2,3,4,6)
 42. Williams J, Carrothers JM, Lackey KA, Beatty NF, York MA, Brooker SL, Shafii B, Price WJ, Settles M, McGuire MA, **McGuire MK**. (2017) Human milk microbial community structure is relatively stable and related to variation in macronutrient and micronutrient intakes in healthy lactating women. *J Nutr*, 2017 Sep;147(9):1739-1748. (1,2,3,4,6)
 43. Williams JE, Price WJ, Shafii B, Yavah KM, Bode L, McGuire MA, **McGuire MK**. (2017) Relationships among microbial communities, maternal cells, oligosaccharides, and macronutrients in human milk. *J Hum Lact*, 2017 Aug;33(3):540-551. (1,2,3,4,6)
 44. Ruiz L, Manzano S, **McGuire MK**, Meehan CL, McGuire MA, Williams JE, Brooker S, Foster J, Sellen DW, Kamau-Mbuthia EW, Kamundia EW, Mbugua S, Moore SE, Kvist LJ, Otoo GE, Lackey KA, Pareja R, Bode L, Rodriguez JM. (2017) What's normal? Immune profiling of human milk from healthy women living in different geographical and socio-economic settings. *Front Immunol*, doi: 10.3389/fimmu.2017.00696. (1,2,3,4,6)
 45. **McGuire MK**, Meehan CL, McGuire MA, Williams JE, Foster J, Sellen DW, Kamau-Mbuthia EW, Kamundia EW, Mbugua S, Moore SE, Prentice AM, Kvist LJ, Otoo GE, Brooker SL, Price WJ, Shafii B, Placek C, Lackey KA, Robertson B, Manzano S, Ruíz L, Rodríguez JM, Pareja RG, Bode L. (2017) What's normal? Oligosaccharide concentrations and profiles in milk produced by healthy women vary geographically. *Am J Clin Nutr*, 105(5):1086-1100. (1,2,3,4,6)
 46. **McGuire MK**, McGuire MA. (2017) Got bacteria? The astounding, yet not-so-surprising, microbiome of human

- milk. *Curr Opin Biotechnol*, 44:63-68. (1,6)
47. **McGuire MK**, McGuire MA, Price WJ, Shafii B, Carrothers JM, Lackey KA, Goldstein DA, Jensen PK, Vicini JL. (2016) Glyphosate and aminomethylphosphonic acid are not detectable in human milk. *Am J Clin Nutr*, 2016 103(5):1285-90. (1,2,3,4,6)
 48. Jensen PK, Wujcik CE, **McGuire MK**, McGuire MA. (2016) Validation of reliable and selective methods for direct determination of glyphosate and AMPA in milk and urine using LC-MS/MS. *J Environ Sci Health Part B*, 2016;51(4):254-9. (6)
 49. **McGuire S**. (2016) Reports from the Agencies: World Cancer Report 2014. Geneva, Switzerland: World Health Organization, International Agency for Research on Cancer, WHO Press, 2015. *Adv Nutr*, 7(2):418-9. (1,6)
 50. **McGuire S**. (2016) Scientific Report of the 2015 Dietary Guidelines Advisory Committee. Washington, DC: US Departments of Agriculture and Health and Human Services, 2015. *Adv Nutr*, 7(1):202-4. (1,6)
 51. Carrothers JM, York MA, Brooker SL, Lackey KA, Williams JE, Shafii B, Price WJ, Settles M, McGuire MA, **McGuire MK**. (2015) Fecal microbial community structure is stable over time and related to variation in macronutrient and micronutrient intakes in lactating women. *J Nutr*, 2015 Oct;145(10):2379-88. (1,2,3,4,6)
 52. **McGuire MK**, McGuire MA. (2015) Human milk: Mother Nature's prototypical probiotic food? *Adv Nutr*, 6:112-23. (1,6)
 53. Yahvah KM, Brooker SL, Williams JE, Settles M, McGuire MA, **McGuire MK**. (2015) Elevated dairy fat intake by lactating women alters milk fat and fatty acid profile without changing gene expression in the milk fat globule transcriptome. *Nutr Res*, 35(3):221-8. (1,2,3,4,6)
 54. **McGuire S**. (2015) Reports from the Agencies: IOM (Institute of Medicine). 2015. Review of WIC food packages: An evaluation of white potatoes in the cash value voucher: Letter report. Washington, DC: The National Academies Press. *Adv Nutr*, 6(6):863-4. (1,6)
 55. **McGuire S**. (2015) Reports from the Agencies: FAO, IFAD and WFP. 2015. The state of food insecurity in the world 2015. Meeting the 2015 international hunger targets: taking stock of uneven progress. *Adv Nutr*, accepted for publication. *Adv Nutr* 6(5):623-4. (1,6)
 56. **McGuire S**. (2015) Reports from the Agencies: Institute of Medicine and National Research Council. Examining a developmental approach to childhood obesity: The fetal and early childhood years: workshop in brief. *Adv Nutr*, 6(4):487-8. (1,6)
 57. **McGuire S**. (2015) Reports from the Agencies: International Food Policy Research Institute. 2014. Global Nutrition Report 2014: Actions and accountability to accelerate the world's progress on nutrition. Washington, DC. *Adv Nutr*, 6(3):278-9. (1,6)
 58. **McGuire S**. (2015) Reports from the Agencies: Expenditures on Children by Families, 2013. US Department of Agriculture, Center for Nutrition Policy and Promotion. Miscellaneous Publication No. 1528-2013. *Adv Nutr*, 6(2):227-8. (1,6)
 59. **McGuire S**. (2015) Reports from the Agencies: World Health Organization. Comprehensive Implementation Plan on Maternal, Infant, and Young Child Nutrition. Geneva, Switzerland, 2014. *Adv Nutr*, 6(1):134-5. (1,6)
 60. Domer MC, Beerman, KA, McGuire, MA, Dasgupta N, Reeves J, Ahmadzadeh A, **McGuire MK**. (2015) Loss of body fat and associated decrease in leptin in early lactation are related to shorter duration of postpartum anovulation in healthy US women. *J Hum Lact*, 31(2):282-93. (1,2,3,4,6)
 61. Bode L, McGuire M, Rodriguez JM, Geddes DT, Hassioutou F, Hartmann PE, **McGuire MK**. (2014) It's alive: Microbes and cells in human milk and their potential benefits to mother and infant. *Adv Nutr*, 5:571-3. (5,6)
 62. **McGuire S**. (2014) Reports from the Agencies: Centers for Disease Control and Prevention. State indicator report on physical activity, 2014. Atlanta, GA: US Department of Health and Human Services, 2014. *Adv Nutr*, 5(6):762-3.
 63. **McGuire S**. (2014) Reports from the Agencies: Institute of Medicine. 2014. Caffeine in food and dietary supplements: examining safety: workshop summary. Washington, DC: The National Academies Press. *Adv Nutr*, (5):585-6. (1,6)
 64. **McGuire S**. (2014) Reports from the Agencies: Consumption of pizza: what we eat in America, NHANES 2007-2010. Food Surveys Research Group Dietary Brief No. 11. *Adv Nutr*, 5(4):456-7. (1,6)
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Monographs and Textbooks

- McGuire MK** & Beerman KA. (2022) *Nutritional Sciences: From Fundamentals to Food*. 4th ed. Cengage, Belmont CA.
- McGuire MK** & O'Connor D., eds. (2021) *Human Milk: Sampling and Measurement of Energy-Yielding Nutrients and Other Macromolecules*. Academic Press. San Diego, CA.
- McGuire MK** & Beerman KA. (2017) *Nutritional Sciences: From Fundamentals to Food*. 3rd ed, updated. Cengage, Belmont CA.
- McGuire MK**, McGuire MA, and Bode L, eds. (2017) *Prebiotics and Probiotics in Human Milk*. Academic Press.
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Book Chapters and Proceedings

- O'Connor DL, **McGuire MK.** (2024) Nutrition and lactation. In: *Modern Nutrition in Health and Disease*. 12th edition. Tucker K, ed., Jones and Bartlett Learning.
- O'Reilly S, **McGuire MK.** (2024) Pregnancy and lactation. In: *Nutrition and Metabolism*. 3rd edition. Lanham-New S, Macdonald I, and Roche H, eds. Wiley-Blackwell, London, UK.
- McGuire MK, Meehan CL, Brooker SA, Williams JE, Foster JA, McGuire MA.** (2017) An evolutionary, biosocial perspective on variation in human milk microbes and oligosaccharides: An example of eco-homeorhesis? In: *Prebiotics and probiotics in human milk*. Elsevier Publishing.
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- McGuire MA, **McGuire MK, McGuire MS, Griinari JM.** (1997) Bovinic acid: the natural CLA. In: *Proceedings of the Cornell Nutrition Conference for Feed Manufacturers*. p. 217-226.
- McGuire MK, Butler WR & Rasmussen KM.** (1992) Evaluation of the rat as a model for studying the mechanisms by which malnutrition and lactation prolong the duration of postpartum anovulation. In: *Mechanisms regulating lactation and infant nutrient utilization*. Picciano, M.F., Lonnerdal, B., eds. *Contemporary issues in clinical nutrition series*. New York: John Wiley & Sons Inc., 413-418.

Local, Regional, National, and International Presentations (asterisk indicates presenter)

- ***McGuire MI** (2024) The milk microbiome – a paradigm shift for infant nutrition. Virginia Tech Health Sciences and Technology Campus (invited seminar speaker). Roanoke, VA. February, 2024.
- ***McGuire MK** (2023) The human milk microbiome: The good, the bad, and the unknown. Annual meeting of the National Academy of Medicine. Washington, DC. Oct. 2023.
- ***McGuire MK** (2023) Beyond the science. Soft skills for nutrition professionals. Annual meeting of the American Society

- for Nutrition. Boston, MA. July, 2023.
- ***McGuire MK** (2023) What? I thought milk was sterile! Idaho Breastfeeding Summit (keynote speaker). Boise, ID. June, 2023.
 - ***McGuire MK** (2023) COVID-19, breastfeeding, and human milk – are we ready for the next pandemic? Idaho Breastfeeding Summit (keynote speaker). Boise, ID. June, 2023.
 - ***McGuire MK** (2023) Serendipity, curiosity, and the human milk microbiome. University of Nebraska (invited seminar speaker). Lincoln, NE. March, 2023.
 - ***McGuire MK** (2023) Update on the human milk microbiome. Pennsylvania State University (invited seminar speaker). Virtual. February, 2023.
 - ***McGuire MK** (2023) The human milk microbiome and COVID-19 breastfeeding research. Cornell University (invited seminar speaker). Virtual. February, 2023.
 - ***McGuire MK** (2023) Milk, microbiomes, and the National Academy of Medicine. Moscow Lion’s Club. Moscow, ID. Feb. 2023.
 - *Meehan CL, **McGuire MK**. (2022) Understanding and interpreting variation in human milk composition. Annual Meeting of the American Anthropological Association, Seattle WA. Nov. 2022.
 - ***McGuire MK** (2022) Hot topics in human milk research. Meeting of the International Milk Genomics Consortium, Davis, California, Oct. 2022.
 - ***McGuire MK** (2022) Milk collection for research on COVID-19 and breastfeeding, Meeting of the International Society for Research in Human Milk and Lactation. Panama City, Panama, Oct. 2022.
 - ***McGuire MK**, *Meehan C. (2022) Human milk and breastfeeding: Scientific challenges, paradigm shifts, and unanswered questions. Washington State University “Pub Talk” series. Pullman, WA, September, 2022.
 - ***McGuire MK** (2022) 120th anniversary of the Margaret Ritchie School of Family and Consumer Sciences – Stronger than Ever! University of Idaho, Moscow, ID, Sept. 2022.
 - ***McGuire MK** (2022) Nutrition for life! Coeur d’Alene Tribal Summer Camp. Plummer, Idaho, June 2022.
 - ***McGuire MK** (2022) The human microbiome: a primer. Culinary Base Camp, University of Idaho, June 2022.
 - ***McGuire MK** (2022) The human milk microbiome – What’s normal? Thriving brains and bodies: Nutrition from infancy to conception. Oregon Health and Science University Center for Global Child Health Research, Portland, Oregon. April, 2022.
 - ***McGuire MK** (2022) The human milk microbiome – A brief review of a recent paradigm shift. Metabolomics Association of North America Microbiome Interest Group. Delivered virtually due to the SARS-CoV-2 pandemic. March, 2022.
 - ***McGuire MK** (2022) Human milk: What do we know, and more importantly, what don’t we know? The Diane Anderson Neonatal Nutrition Conference, Texas Children’s Hospital. Delivered virtually due to the SARS-CoV-2 pandemic. February, 2022.
 - ***McGuire MK** (2021) Human milk: Our best (yet darn tricky) reference for infant nutrient requirements – But what about bioactives? NIH Workshop: Exploring the Science Surrounding the Safe Use of Bioactive Ingredients in Infant Formula: Considerations for an Assessment Framework. Delivered virtually due to the SARS-CoV-2 pandemic. September, 2021.
 - ***McGuire MK** (2021) Studying a pandemic during a pandemic: Navigating challenges related to breastfeeding and COVID-19 research. Canadian Nutrition Society, delivered virtually due to SARS-CoV-2 pandemic. April, 2021.
 - ***McGuire MK** (2021) Breastmilk ecology genesis of Infant nutrition (BEGIN) project – Working group 2. Chaired and moderated virtual workshop. National Institutes of Health. February, 2021.
 - ***McGuire MK**, ***McGuire MA**. (2021) Studying SARS-CoV-2 transmission via breastfeeding during the pandemic. University of Idaho Renfrew Interdisciplinary Colloquium. January, 2021.
 - ***McGuire MK**. (2020) COVID-19, human milk, and breastfeeding. Bill and Melinda Gates Foundation Grant Challenges Meeting. Scheduled for Mumbai, India but delivered virtually due to SARS-CoV-2 pandemic. October, 2020.
 - ***McGuire MK**. (2020) Human milk microbiome: variation and potential impact on maternal and infant health. Microbiome Movement: Maternal and Infant Health. Scheduled for Boston, MA but delivered virtually due to SARS-CoV-2 pandemic. October, 2020.
 - ***McGuire MK**. (2020) SARS-CoV-2, breastfeeding, and human milk: a call to action. International Milk Genomics

- Consortium annual meeting. Scheduled for Davis, CA but delivered virtually due to SARS-CoV-2 pandemic. October, 2020.
- ***McGuire MK.** (2020) Best practices guidelines for collecting and analyzing human milk for COVID-19 research. WHO/NIH COVID-19 and Infant Feeding Research Interest Group. Via Zoom. September, 2020.
 - ***McGuire MK, McGuire MA.** (2020) SARS-CoV-2, COVID-19, and breastfeeding. UI Department of Physics seminar series. September, 2020. October, 2020.
 - ***McGuire MK.** (2020) Flying a jumbo jet while assembling it – studying SARS-CoV-2 during the pandemic. UI FCS seminar series. September, 2020.
 - ***McGuire MK.** (2020) COVID-19, breastfeeding, and lactation – getting the science right sooner rather than later. International Society for Research in Human Milk and Lactation. Scheduled for Stockholm, Sweden but delivered virtually due to SARS-CoV-2 pandemic. August, 2020.
 - ***McGuire MK.** (2019) The human milk microbiome – who knew? Biology seminar series, Pepperdine University, Malibu, CA, November, 2019.
 - ***McGuire MK.** (2019) Nutrients that support lactation. Dannon Maternal and Pediatric Advisory Board meeting, New York City, NY, October, 2019.
 - ***McGuire MK.** (2019) Got microbes? An update on the human milk microbiome. Multi-omics for Microbiomes conference, Pacific Northwest National Laboratory, Richland, WA, July, 2019.
 - ***McGuire MK.** (2019) Milk microbiome: origin and impact of maternal diet? European Society for Gastroenterology, Hepatology, and Nutrition (ESGHAN), Glasgow, Scotland, June, 2019.
 - ***McGuire MK.** (2019) The human milk microbiome: a paradigm shift in infant nutrition. Departmental seminar, University of Massachusetts (Amherst), April, 2019.
 - ***McGuire, MK.** (2019) Impact of maternal and infant diets on the microbiome and health. Meeting of the American Gastroenterological Association (AGA) and the European Society of Neurogastroenterology and Motility (ESNM). Miami, Florida, March, 2019.
 - ***McGuire, MK.** (2019) Human milk and bacteria - strange bedfellows or longtime lovers? Department of Biological Sciences seminar series, University of Idaho, February, 2019.
 - ***McGuire MK.** (2019) Moms, milk, and Monsanto: An up-close-and-personal experience with misunderstandings around conflicts of interest. Breastfeeding and the Origins of Health – Interdisciplinary Perspectives and Priorities, University of Manitoba, Winnipeg, Canada, February, 2019.
 - ***McGuire MK.** (2018) Human milk: Mother nature’s quintessential designer food? SAS (Short and Sweet) Research Speaker Series, University of Idaho, December, 2018.
 - ***McGuire MK, McGuire MA.** (2018) The intersection of scientific research, university politics, and advocacy backlash. Presented at the US Department of Agriculture’s workshop entitled “Fearing Our Food—Science Communication Challenges in an Era of Mis-Information.” Washington DC, December, 2018.
 - ***McGuire MK.** (2018) The human milk microbiome. Biennial meeting of the International Milk Genomics Consortium. Sacramento, California, November, 2018.
 - ***McGuire MK.** (2018) The human milk microbiome. Annual meeting of the Academy of Nutrition and Dietetics. Washington DC, October, 2018.
 - ***McGuire MK.** (2018) The human milk microbiome. Bill and Melinda Gates Foundation Grand Challenges meeting, Berlin, Germany, October, 2018.
 - ***McGuire MK.** (2018) Best practices for conducting human milk studies globally. International Society for Research in Human Milk and Lactation. Kanagawa, Japan, October, 2018.
 - ***McGuire MK, McGuire MA.** (2018) Moms, milk, and Monsanto: The makings of a perfect storm. American Chemical Society. Boston, August, 2018.
 - ***McGuire MK.** (2018) Multipathogen protein microarray: characterizing immune specificity of human milk. Bill and Melinda Gates Foundation, Seattle, June, 2018.
 - ***McGuire MK.** (2018) Managing maniacal moms – since when does being a mom make you an expert on everything? International Consortium on Applied Bioeconomy Research meeting, World Bank. Washington, DC, July, 2018.
 - ***McGuire MK.** (2018) Global variation in human milk oligosaccharides and their relationships with other milk

- constituents. Annual meeting of the American Society for Nutrition. Boston, MA, June, 2018.
- ***McGuire MK.** (2018) What is normal milk? New discoveries in human milk composition: diversity and possible function. Annual meeting of the American Society for Nutrition. Boston, MA, June, 2018.
 - ***McGuire MK.** (2018) The human milk microbiome and relationships with maternal nutrition. Seattle Dietetics Association, Seattle, WA, April, 2018.
 - ***McGuire MK.** (2018) The human milk microbiome – A new twist in infant nutrition. 4th International Conference on Gut Microbiota and Health. Shanghai, China, March, 2018.
 - ***McGuire MK.** (2018) INSPIRE: What have we learned so far? Medical Research Council retreat, Keneba, The Gambia, February, 2018.
 - ***McGuire MK.** (2017) What's normal? The human milk microbiome - a paradigm shift in infant nutrition. Microbiome Human Nutrition, Boston, MA, November, 2017.
 - ***McGuire MK.** (2017) Human milk composition; perspectives from academics. NIH Workshop on Human Milk Composition – Biological, Environmental, Nutritional, and Methodological Considerations. Bethesda, MD, November 16-17, 2017.
 - ***McGuire MK.** (2017) Non-nutritive bioactive components and the microbiome. NIH Workshop on Human Milk Composition – Biological, Environmental, Nutritional, and Methodological Considerations. Bethesda, MD, November 16-17, 2017.
 - ***McGuire MK, Williams JE, McGuire MA.** (2017) Eco-homeorhesis – has milk composition plasticity evolved to support optimal health in specific environments and cultures? Nestle Symposium, Lausanne, Switzerland, October, 2017.
 - ***McGuire MK and McGuire MA.** (2017) The human milk microbiome. HiPP Symposium, Munich, Germany, October, 2017.
 - ***McGuire MK and McGuire MA.** (2017) What is “normal” human milk and how is it affected by maternal diet? FASEB Science Research Conference, Lisbon, Portugal, July, 2017.
 - ***McGuire MK and McGuire MA.** (2017) The human milk microbiome. European Society for Gastroenterology, Hepatology, and Nutrition (ESGHAN), Prague, the Czech Republic, May, 2017.
 - ***McGuire MK.** (2017) Prioritizing your time and learning to say “no” (and when to say “yes”)—secrets to becoming a happy and effective scientist. Experimental Biology, April, 2017.
 - ***McGuire MK and McGuire MA.** (2017) The human milk microbiome. Abbott Laboratories, Columbus, OH, April, 2017.
 - ***McGuire MK.** (2017) Nutrition basics for breastfeeding moms and babies. International webinar series, Medela, Inc., March, 2017.
 - ***McGuire MK and McGuire MA.** (2017) Human milk: Mother Nature’s prototypical probiotic? Society for Risk Analysis webinar series, March, 2017.
 - ***McGuire MK.** (2017) Infant and child nutrition. WSU Global Campus webinar series, February, 2017.
 - ***McGuire MK and McGuire MA.** (2016) The human milk microbiome and oligosaccharides; What’s normal, and so what? Annual meeting of the American Dairy Science Association, Salt Lake City, UT, July, 2016.
 - ***McGuire MK.** (2016) The human milk microbiome – a paradigm shift. International webinar series, Medela, Inc., June, 2016.
 - ***McGuire MK.** (2016) Glyphosate in human milk – confessions of a (somewhat) naïve scientist. Presented as part of a regulatory symposium at Monsanto Company, St. Louis, MO, April, 2016.
 - ***McGuire MK.** (2016) Milk, microbes, and Monsanto. WSU Prevention Science Program seminar series, April, 2016.
 - ***McGuire MK, McGuire MA.** (2016) Effect of maternal diet on human milk lipids. International Society for Research in Human Milk and Lactation, South Africa, March, 2016.
 - ***McGuire MK, McGuire MA.** (2016) Anticipating and handling “big data” in international lactation research – perspectives from a nutrition scientist and lessons from the INSPIRE project. International Society for Research in Human Milk and Lactation, South Africa, March, 2016.
 - ***McGuire MK.** (2015) Milk, microbes, and Monsanto. WSU School of Biological Sciences seminar series. November, 2015.
 - ***McGuire MK.** (2015) Ecological, anthropological, and environmental aspects of the human milk microbiome. Presented at the FASEB Science Research Conference, Big Sky, Montana, July, 2015.

- ***McGuire MK**, McGuire MA. (2014) Human milk: Mother Nature’s prototypical probiotic food? Presented at the 11th International Milk Genomics Conference in Aarhus, Denmark, October 2014.
- ***McGuire MK**, McGuire MA. (2014) Introduction to the human milk microbiome – yes, there are bacteria in milk! Presented at the 16th meeting of the International Society for Research in Human Milk and Lactation held in Kiawah, SC in October, 2014.
- ***McGuire MK**, McGuire MA. (2014) The human milk microbiome – a paradigm shift. Presented at the Society for Glycobiology meetings in Honolulu, Hawaii, November 2014.
- ***McGuire MK**. (2014) Optimizing nutrition during pregnancy for maternal and infant health. Presented in Dhaka, Bangladesh as part of clinical nutrition symposium, June 21, 2014.
- ***McGuire MK**, McGuire MA. (2014) Human milk and microbes: exploring a new avenue in infant nutrition research. Presented at the Inland Northwest Genomics Research Symposium. University of Idaho. May 22, 2014; see <http://www.ibest.uidaho.edu/events/inland-northwest-genomics-research-symposium/> for more details.
- ***McGuire MK**. (2014) Milk: the first probiotic food? Experimental Biology 2014 meetings as part of a symposium entitled “It’s alive – bacteria and cells in human milk.” April, 2014. San Diego, CA.
- ***McGuire MK**. (2013) State-of-the-science: human milk microbiome studies and implications for development of dairy-based foods for mothers and infants. Arla Foods, AB, Stockholm, Sweden. November 13, 2013.
- ***McGuire MK** and McGuire, MA. (2013) Hands-on workshop: Teaching undergraduate and graduate students how to critically evaluate scientific literature. Swedish Agricultural University, Uppsala, Sweden. November 6, 2013.
- ***McGuire MK**. (2013) Effect of maternal diet on milk composition and lactation success. Comparative Lactation Biology course, CoLact Comparative Lactation Network, Saxå Herrgård/Grythyttans Gästgivaregard, Sweden, September 23-27, 2013.
- ***McGuire MK**. (2013) Hot topics in human lactation – prebiotics and probiotics. Comparative Lactation Biology course, CoLact Comparative Lactation Network, Saxå Herrgård/Grythyttans Gästgivaregard, Sweden, September 23-27, 2013.
- ***McGuire MK**, McGuire MA. (2013) Human Milk – Nature’s Original Probiotic? Proc of the Nordic Breastfeeding Conference. Espoo, Finland. Sept., 2013.
- ***McGuire MK**. (2013) Hot topics in human milk composition. American Dairy Science Association meetings. Indianapolis, IN. July 10, 2013.
- ***McGuire MK**. (2013) From one scientist to another: How to get your point across in 3 minutes. Experimental Biology meetings, Boston, MA. April, 2013.
- McGuire MA, Hunt KM, Williams, J, **McGuire MK**. (2012) Culture-independent assessment of bacteria in milk. University of Madrid, Spain, Sept. 26, 2012.
- McGuire MA, Hunt KM, **McGuire MK**. (2011) Culture-independent analysis of the bacterial communities in healthy and mastitic milk. Presented at the meeting of the European Federation of Animal Science (EAAP) in Stavanger, Norway. Sept., 2011.
- ***McGuire MK**. (2011) Dietary Guidelines for Americans and MyPlate: Realizing the power of recent guidance documents during pregnancy and lactation. Presented at the Symposium for Breastfeeding, Seattle, WA. July, 2011.
- McGuire MA, **McGuire MK**. (2011) Bacteria in human milk: friend or foe? Presented at the Symposium for Breastfeeding, Seattle, WA. July, 2011.
- ***McGuire MK**, McGuire MA. (2010) Hypothesis: Inflammation is a healthy part of successful stage II lactogenesis in women. To be presented as part of the “Mammary Gland in Health and Disease” conference at the Swedish University of Agricultural Sciences, Kungsängen Research Centre in Uppsala, Sweden. Dec., 2010.
- McGuire MA, **McGuire MK**. (2010) Culture-independent analysis of the bacterial communities in milk from women. Presented as part of the “Mammary Gland in Health and Disease” conference at the Swedish University of Agricultural Sciences, Kungsängen Research Centre in Uppsala, Sweden. Dec., 2010.
- ***McGuire MK**. (2010) The nourishing nature of milk: beyond the traditional nutrients. Experimental Biology, Anaheim, CA. April, 2010.
- ***McGuire MK**, Roe A. (2009) First and foremost: food is about nutrition. Presented as part of the Common Readings Program’s Faculty Lecture Series. Pullman, WA. Sept., 2009.

- ***McGuire MK.** (2008) Nutrition and sports. Presented to the annual meeting of Moscow United Soccer parents and athletes. Moscow, ID. April, 2008.
- ***McGuire MK.** (2008) Trans fatty acids and human health: an update on the evidence. Sponsored by the Ada Canyon Medical Education Consortium as part of their continuing medical education program to area physicians. Boise, ID. May, 2008
- ***McGuire MK.** (2008) Milk Lipids – Potential Impact on Maternal and Infant Health. Presented as part of the University of Alberta departmental seminar series. March, 2008.
- ***McGuire MK, McGuire MA.** (2006) Studies in human lactation and nutrition on the Palouse; is there a connection with microbiology? Presented as part of the University of Idaho Dept. Microbiology, Molecular Biology, and Biochemistry seminar series. November, 2006.
- ***McGuire MK, McGuire MA.** (2006) Conjugated linoleic acid (CLA) and human lactation. Presented at International Society for Research in Human Milk and Lactation meeting held in Niagara-on-the-Lake, Ontario, Canada, Sept. 2006.
- ***McGuire MK.** (2006) Potential importance of conjugated linoleic acid (CLA) to maternal and infant health. Presented as part of the WSU Dept. Animal Sciences seminar series. May, 2006.
- ***McGuire MK.** (2006) Update on the relationship between maternal nutritional status and duration of lactational amenorrhea. Presented to the WSU Center for Reproductive Biology, February, 2006.
- ***McGuire MK, McGuire MA.** (2005) Regulation of milk fat content by dietary lipid consumption in humans. Presented to the faculty of the Dept. Animal Sciences at the University of Sassari (Sardinia, Italy), June, 2005.
- ***McGuire MK.** (2005) Introduction to conjugated linoleic acid and its potential to influence mammary growth, differentiation and function. Presented as the introductory talk at a symposium at the Experimental Biology 2005 annual meetings in San Diego, CA, April 20, 2005.
- ***McGuire MK.** (2005) Potential impact of conjugated linoleic acid (CLA) on maternal and infant health. Presented at the first meeting of the US CLA network in Chicago, IL, Feb. 11, 2005.
- McGuire MK, McGuire MA.** (2003) Conjugated linoleic acid (CLA) and human health; a review of the current literature. Presented at the Pacific Northwest Animal Nutrition Conference, Portland, Oregon, October 7-8, 2003.
- ***McGuire MK, McGuire MA.** (2002) Documentation of CLA intake in humans; What we know and what we should know. Presented at Perspectives on Conjugated Linoleic Acid Research; Current Status and Future Directions, National Institutes of Health, Bethesda, Maryland, May 15-16, 2002.
- ***Anderson N, McGuire MK.** (2002) Trans fatty acid intake and maternal body fat interact to influence milk fat content in humans. Presented at the Center for Reproductive Biology seminar series, Washington State University, May 5, 2002.
- ***McGuire MK, McGuire MA.** (2001) Documentation of CLA intake in humans: Potential health implications during the postpartum period for mothers and infants. Presented at the 1st International Conference on Conjugated Linoleic Acid (CLA), Ålesund, Norway, June, 2001.
- ***McGuire MK.** (2001) CLA; Evidence that all fats aren't created equal. Presented to the Idaho Dietetics Association, Lewiston, ID, April 26, 2001.
- ***McGuire MK.** (2000) Trans fatty acid intake during lactation; should we be concerned? Presented at the Center for Reproductive Biology seminar series, Washington State University, Nov. 15, 2000.

Abstracts

- Partridge C, Paullin T, Kim B-J, Dallas D, Williams J, McGuire MA, **McGuire MK.** (2024) Variability in presence, abundance, and timing of bovine milk-and soy-derived peptides in human milk after maternal bovine milk and soy beverage consumption. *Curr Dev Nutr.* 8. Presented at the annual meeting of the American Society for Nutrition, Chicago, IL, July 2024.
- Castro I, Arroyo R, Pace RM, Williams JE, McGuire MA, Fernandez L, Rodriguez JM, **McGuire MK.** (2024) Associations between clinical and subclinical mastitis on human milk immunological profiles. *Curr Dev Nutr.* 8. Presented at the annual meeting of the American Society for Nutrition, Chicago, IL, July 2024.

- Gogel A, Bull KA, Kim B-J, Dallas D, Williams JE, McGuire MA, **McGuire MK**. (2024) Circadian and within-feed variation in human milk total protein and proteomic profiles. *Curr Dev Nutr*. 8. Presented at the annual meeting of the American Society for Nutrition, Chicago, IL, July 2024.
- Daiy K, Bertacchi V, Choy C, Savusa K, Vesi L, Reupena A, Abraham J, Naseri T, Magele A, Williams J, McGuire MA, **McGuire MK**, Hawley N. (2024) Maternal dietary pattern and milk and infant fecal microbiome composition in Samoan mother-infant dyads 2-4 months postpartum. Presented at the annual meeting of the Human Biology Association, Los Angeles, CA.
- Holdsworth EA, Williams JE, Pace RM, Gartstein M, McGuire MA, **McGuire MK**, Meehan CL. (2024) Maternal postnatal stress and the human milk microbiome: the Mother-Infant Microbiomes, Behavior, and Ecology Study (MIMBES). Presented at the annual meeting of the Human Biology Association, Los Angeles, CA.
- Edrisi M, Holdsworth EA, **McGuire MK**, McGuire MA, Williams J, Garstein M, Blackwell A, Meehan C. (2023) Household ecology and infants' fecal microbiome: the MIMBES study. Washington State University Graduate and Professional Student Association Showcase. Pullman, WA. February 2023.
- Bandyopadhyay S, Schulze KJ, Zhang J, Wu, L S-F, Baker S, **McGuire, MK**, McGuire M, Williams JE, Ali H, Shaikh S, West KP. (2023) Human milk fatty acid composition in relation to maternal diet: findings from the JiVitA-3 study. Presented at the annual meeting of the American Society for Nutrition. Boston, MA. June 2023.
- Martin MA, Keith MH, Pace RM, Williams JE, Ley SH, Barbosa-Leiker C, Caffé B, Smith CB, Kunkle A, Lackey KA, Navarrete AD, Pace CDW, Gogel AC, Eisenberg DTA, Fehrenkamp BD, McGuire MA, **McGuire MK**, Meehan CL, Brindle E (2023) Maternal and infant SARS-CoV-2 antibody responses following maternal COVID-19 infection. Presented at the 2023 Annual Meeting of the American Association of Biological Anthropology. Reno, NV. April 2023.
- King-Nakaoka E, Morse A, Pace R, Williams J, Meehan C, Martin M, Ley SH, Barbosa-Leiker C, McGuire MA, **McGuire MK**. (2023) Frequency and duration of severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2) in feces of breastfed infants of mothers with and without confirmed COVID-19. Presented at the Western Student and Resident Medical Research Forum. Carmel, CA. January 2023.
- Morse A, King-Nakaoka E, Pace R, Williams J, Meehan C, Martin M, Ley SH, Barbosa-Leiker C, McGuire MA, **McGuire MK**. (2023) Frequency and duration of severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2) in feces of breastfeeding mothers with and without confirmed COVID-19. Presented at the Western Student and Resident Medical Research Forum. January 2023.
- Pham C, Williams JE, Holdsworth EA, McGuire MA, **McGuire MK**, Meehan CL, Gartstein MA. (2022) Associations between fecal microbiome diversity and temperament traits in young infants: The MIMBES Study. Presented at the Annual meeting of the International Society for Developmental Psychobiology. November 2022.
- Pace R, Pace C, Williams J, McGuire MA, **McGuire MK**. (2022) Metagenomic characterization of the human milk microbiota at the species level in relationship to mastitis. Presented at the biennial meeting of the International Society for Research in Human Milk and Lactation. Panama City, Panama. October 2022.
- Partridge C, Paullin T, Kim B-J, Dallas D, Williams J, McGuire MA, **McGuire MK**. (2022) Variability in abundance and timing of bovine and soy-derived peptides in human milk after maternal soy beverage and bovine milk consumption. Presented at the biennial meeting of the International Society for Research in Human Milk and Lactation. Panama City, Panama. October 2022.
- Williams J, Murdoch B, Pace R, McGuire MA, **McGuire MK**, the INSPIRE Consortium. (2022) Maternal genetics is associated with variation in human milk microbiome composition: the INSPIRE Study. Presented at the biennial meeting of the International Society for Research in Human Milk and Lactation. Panama City, Panama. October 2022.
- Boothman S, Meehan C, McGuire MA, Williams J, Piaskowski J, **McGuire MK**, the INSPIRE Consortium. (2022) Maternal diet patterns are associated with global variation in the human milk microbiome: The INSPIRE Study. Presented at the at the biennial meeting of the International Society for Research in Human Milk and Lactation. Panama City, Panama. October 2022.
- Gogel A, Bull K, Kim B-J, Dallas D, Williams J, McGuire MA, **McGuire MK**. (2022) Human milk total protein and proteomics vary within a feed and over day. Presented at the biennial meeting of the International Society for Research in Human Milk and Lactation. Panama City, Panama. October 2022.

- Attia A, Mbullo P, Mogaka J, Odhiambo S, **McGuire MK**, Fuchs G, Waterman C. (2022) Nutrient-dense Moringa oleifera leaf supplementation increases human milk output in western Kenyan mothers. *Curr Dev Nutr*, 6(Suppl 1). Presented at the annual meeting of the American Society for Nutrition (virtual), July 2022.
- Attia SL, Mbullo P, Odhiambo S, Mogaka J, Ondondo R, Schadler A, Stromberg A, **McGuire MK**, Fuchs JG III, Waterman C. (2022) Nutrient-dense Moringa oleifera leaf supplementation increases human milk output in western Kenyan mothers. Presented at the NIH BIRCWH (Building Interdisciplinary Research Careers in Women's Health) Annual Meeting. Lexington, KY (University of Kentucky), November 2022.
- Caffé B, Fehrenkamp BD, Williams JE, Lackey KA, Pace RM, McGuire MA, Blackwell A, **McGuire MK**, Meehan CL. Variation in human milk immune factors: A test of the Trivers Willard Hypothesis. (2022) Presented at the annual meeting of the American Anthropological Association. Seattle, WA. November, 2022.
- Holdsworth EA, Williams JE, Pace RM, Hagen EH, Lane AA, Garstein M, McGuire MA, **McGuire MK**, Meehan CL. (2022) Breastfeeding frequency is associated with differential abundance of bacteria in human milk. Annual Meeting of the American Association of Biological Anthropologists, Denver CO. March 24-26, 2022.
- Holdsworth EA, **McGuire MK**, Williams JE, Pace R, McGuire MA, Hagen E, Gartstein M, Meehan CL. (2022) Modeling the mother-infant nexus in the milk and infant fecal microbiomes. Presented at the annual meeting of the American Anthropological Association. Seattle, WA. November, 2022.
- Peterson HK, Pace RM, Kelley T, Williams JE, **McGuire MK**, McGuire MA. (2022) Use of milk components to assess mammary gland health in the first 22 days postpartum. Presented at the annual meeting of the American Dairy Science Association. June, 2022.
- Bull KA, Gogel AC, Williams JE, Bonney Y, McGuire MA, **McGuire MK**. (2021) Protein concentration of human milk varies within a feed and over a 24-hour period. Presented at the Western Medical Research Conference (virtual due to COVID), January, 2022.
- Caffe B, Fehrenkamp B, Williams JE, Lackey K, Pace RM, McGuire MA, Blackwell A, **McGuire MK**, Meehan CL. (2021) Cross-cultural test of Trivers-Willard hypothesis in human milk immune factors: The INSPIRE Study. Presented at the Northwest Evolution, Ecology, and Human Behavior Symposium, Pullman, WA. October, 2021.
- Holdsworth EA, Hagen E, Williams JE, Lane AA, Garstein M, McGuire MA, **McGuire MK**, Meehan CL. Frequency of breastfeeding is negatively associated with microbial richness of human milk. Presented at the Northwest Evolution, Ecology, and Human Behavior Symposium, Pullman, WA. October, 2021.
- Gogel AC, Williams J, McGuire M, Pace R, Wu L, Baker S, West K, Christian P, Shaikh S, Ali H, Price W, Schulze K, **McGuire MK**. (2021) Associations between milk microbiome and infant anthropometrics in rural Bangladesh. Presented at the 2021 meeting of the International Society for Research in Human Milk and Lactation, Stockholm, Sweden (virtual). August, 2021.
- Meehan CL, Pace RM, Murdoch G, Caffe B, Williams JE, McGuire MA, McGuire MK. (2021) Infant-to-mother microbial transfer during breastfeeding. Presented at the 2021 meeting of the International Society for Research in Human Milk and Lactation, Stockholm, Sweden (virtual). August, 2021.
- Pace RM, Pace CDW, Fehrenkamp BD, Lewis M, Williams JE, McGuire MA, **McGuire MK**. (2021) Evaluation of the clinical utility of human milk sodium, potassium, and somatic cell counts as biomarkers of mastitis. Presented at the meeting of the International Society for Research in Human Milk and Lactation, Stockholm, Sweden (virtual). August, 2021.
- Peterson HK, Williams JE, Couvillion SP, Kelley T, Nicora CD, Webb-Robertson BM, Nakayasu ES, Metz TO, Mostoller KE, Peterson EL, **McGuire MK**, McGuire MA. (2021) Changes in phospholipids in milk produced by dairy cows with clinical or subclinical mastitis in the first 21 days postpartum. Presented at the 2021 meeting of the American Dairy Science Association (virtual). August, 2021.
- Pace R, Williams J, Lackey K, McGuire M, **McGuire M**, INSPIRE Consortium. (2020) Differences in the concentration and composition of human milk components are related to variation in milk and infant fecal microbiomes. Presented (virtually) at the meeting of the International Society for Research in Human Milk and Lactation. Scheduled for Stockholm, Sweden but presented virtually due to SARS-CoV-2 pandemic. *Curr Dev Nutr*. 4:Suppl2, 1056.
- Reyes SM, Allen DL, Williams JE, **McGuire MK**, McGuire MA, Hay AG, Rasmussen KM. (2020) Fewer commensals in thawed milk? Differential bacterial taxa in human milk after freezing at home: A randomized crossover trial.

- International Society for Research in Human Milk and Lactation. Scheduled for Stockholm, Sweden but presented virtually due to SARS-CoV-2 pandemic. August, 2020.
- Reyes SM, Allen DL, Williams JE, **McGuire MK**, McGuire MA, Hay AG, Rasmussen KM. (2020) Differential survival of bacterial taxa in refrigerated human milk: A randomized crossover trial. International Society for Research in Human Milk and Lactation. Scheduled for Stockholm, Sweden but presented virtually due to SARS-CoV-2 pandemic. August, 2020.
- Wagner CL, Baatz JE, Serrano M, Newton DA, Shary JR, **McGuire M**, Buck G. (2020) Human milk microbiome (HMM) changes as a function of maternal vitamin D status: post hoc analysis of NICHD vitamin D lactation supplementation study. Microbiome Movement conference, April 2020. Boston, MA.
- Gogel AC, Sharma S, Lackey KA, Williams JE, Pace RM, Price WJ, McGuire MA, **McGuire MK**. Milk microbiome methods: does fraction matter? (2019) Proceedings of the FASEB Science Research Conference on Origins and Benefits of Biologically Active Substances in Human M, July 24-26, 2019. Miami, FL.
- Pace R, Meehan C, McGuire M, Williams J, Lackey K, Foster J, Sellen D, Kamau-Mbutia E, Kamundia E, Mbugua S, Moore S, Prentice A, Kvist L, Otoo, G, Rodrigues J, Ruiz L, Pareja R, Bode L, **McGuire M**. (2019) Variation in human milk oligosaccharides, protein, and lactose are related to variation in milk and infant stool microbiota. Proceedings of the Multi-omics for Microbiome conference, Pacific Northwest National Laboratory, July 24-26, 2019. Richland, WA.
- Lane A, Lackey KA, Williams JE, Kaul A, Hagen EH, McGuire MA, **McGuire MK**, Meehan CL, the INSPIRE Consortium. (2018) Family structure and the infant gastrointestinal microbiome: potential for socially-mediated bacteria. American Anthropological Association, November 14-18, 2018. San Jose, CA.
- McGuire MK**, Meehan C, McGuire MA, Williams J, and the INSPIRE Consortium. (2018) What's normal for human milk composition: lessons learned from the INSPIRE project. *Breastfeeding Medicine* 13(Suppl. 7):A-4.
- Williams J, **McGuire MK**, McGuire MA. (2018) What's normal? Global variation in human milk microbiome and other related factors. *Breastfeeding Medicine* 13(Suppl. 7):A-7.
- Meehan CL, **McGuire MK**, Lane A, Lackey K, Kaul A, McGuire MA, Williams J, Price W, Gindola D, and the INSPIRE Consortium. (2018) Environmental, social, and behavioral characteristics and the human milk microbiome. *Breastfeeding Medicine* 13(Suppl. 7):A-10.
- Lackey KL, **McGuire MK**, Meehan C, McGuire MA, Williams J, Price W, and the INSPIRE Consortium. (2018) What's normal? Human milk and infant fecal microbiomes vary geographically and are related to each other. *Breastfeeding Medicine* 13(Suppl. 7):A-21-A22.
- McGuire MK**, Meehan C, McGuire MA, Williams J, Campo J, Randall A, Seppo A, Jarvinen-Seppo K, and the INSPIRE Consortium. (2018) What's normal? Characterizing immunoglobulin specificity in milk produced by women in diverse locations. *Breastfeeding Medicine* 13(Suppl. 7):A-23.
- Gannarapu A, Lackey K, **McGuire MK**, Gozen A. (2018) Intellibra: a wearable device for measurement of milk production and output. *Breastfeeding Medicine* 13(Suppl. 7):A-31.
- Brooker S, **McGuire MK**, Meehan C, Williams J, McGuire MA, Murdoch B, and the INSPIRE Consortium. (2018) Polymorphisms in and evidence for selection of genes related to human milk composition. *Breastfeeding Medicine* 13(Suppl. 7):A-34.
- McBride K, **McGuire MK**, Neibergs H, Kiser J, Meehan C, Williams J, McGuire MA, Murdoch B, Bode L, Robertson B, and the INSPIRE Consortium. (2018) Genome-wide association analysis of 2'-fucosyllactose concentration in human milk. *Breastfeeding Medicine* 13(Suppl. 7):A-36.
- Williams J, Murdoch B, McGuire MA, Brooker S, **McGuire MK**, Neibergs H, Kiser J, McBride K, Meehan C, and the INSPIRE Consortium. (2018) Genome-wide association analysis of lactose and protein concentrations in human milk. *Breastfeeding Medicine* 13(Suppl. 7):A-36.
- Lane A, Meehan C, **McGuire MK**, Lackey K, Kaul A, Hagen E, Williams J, McGuire MA, and the INSPIRE Consortium. (2018) Human milk and infant fecal microbiomes, and sibling presence. *Breastfeeding Medicine* 13(Suppl. 7):A-47.
- Reyes SM, Allen DL, Williams J, McGuire MA, **McGuire MK**, Hay AG, Rasmussen KM. (2018) Sources of bacterial contamination in home-expressed human milk. *Breastfeeding Medicine* 13(Suppl. 7):A-50.
- Boothman S, **McGuire MK**, Lackey K, Meehan C, McGuire MA, Williams J, Price W, and the INSPIRE Consortium. (2018)

- Maternal diet and the human milk microbiome. *Breastfeeding Medicine* 13(Suppl. 7):A-51-A-52.
- Lackey KA, Williams JE, Meehan CM, Price WJ, McGuire MA, **McGuire MK**. (2018) What's normal? microbiomes in human milk and infant feces vary geographically and are related to each other. *WSU Showcase*, 2018.
- Williams JE, Carrothers JM, Lackey KA, York MA, Brooker SL, McGuire MA, **McGuire MK**. (2018) Associations between maternal intake of energy-yielding nutrients during breastfeeding and relative abundance of bacterial genera in the infant fecal microbiome. *American Society for Nutrition*, Boston (June, 2018).
- Williams JE, Bode L, Nissan C, McGuire MA, **McGuire MK**. (2018) Associations between human milk oligosaccharides and consumption of energy-yielding nutrients in healthy, breastfeeding women. *American Society for Nutrition*, Boston (June, 2018).
- Reyes SM, Allen DL, **McGuire MK**, McGuire MA, Hay AG, Rasmussen KM. (2018) Bacterial composition of expressed human milk collected under two real-life conditions - a randomized, controlled trial. *American Society for Nutrition*, Boston (June, 2018).
- Gannarapu A, Lackey, K, **McGuire MK**, Gozen. (2018) IntelliBra – A smart nursing bra for measuring human milk production, infant milk consumption, and breast temperature. *WSU Showcase*, 2018.
- Lane AL, Hagen EH, Lackey KA, Williams JE, McGuire MA, **McGuire MK**, Meehan CL. (2018) Household composition and the infant gastrointestinal microbiome: a cross-cultural study. *Society for Cross-Cultural Research*. Las Vegas, NV, February 21-24, 2018.
- Meehan CL, Lackey KA, Hagen EG, Williams JE, McGuire MA, **McGuire MK**. (2017) The social worlds of mothers, infants, and microbes: Cooperative breeding and the human milk microbiome. Presented at the annual meeting of the 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans (April 2017).
- Lackey KA, Williams JE, Price WJ, Carrothers JM, Brooker SL, Shafii B, McGuire MA, **McGuire MK**. (2017) Comparison of commercially-available preservatives for maintaining the integrity of bacterial DNA in human milk. *Proceedings of the FASEB Science Research Conference on Origins and benefits of biologically active substances in human milk held in held in Lisbon, Portugal* (July 2017).
- McGuire MK**, McGuire MA. The human milk microbiome and oligosaccharides: (2017) What's normal and so what? *American Society of Animal Science/American Society for Nutrition Joint Symposium: Gut microbiota, diet and health*. July 19, 2016. *J. Anim. Sci.* 94(E-Suppl. 5)/*J. Dairy Sci.* 2016;99(E-Suppl. 1): 102.
- Lackey KA, Williams JE, Meehan CL, Williams DL, McGuire MA, **McGuire MK**. (2016) Microbiome of milk produced by women living in a leprosy-endemic region of the Central African Republic. *Proceedings of the 18th International Society for Research in Human Milk and Lactation (ISRHML) meeting*, South Africa (March, 2016).
- Williams JE, Carrothers JM, Lackey KA, Beatty N, York MA, Brooker SL, McGuire MA, **McGuire MK**. (2016) Relationships among the microbial communities in human milk, maternal feces, and infant feces during breastfeeding. *Proceedings of the 18th International Society for Research in Human Milk and Lactation (ISRHML) meeting*, South Africa (March, 2016).
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Patent

- Garment and method for measuring milk production and breastfeeding parameters. Patent no. 16/617,590. Aug. 2022. Inventors: Arda Gozen, Michelle McGuire, Abhishek Gannarapu, Kimberly Lackey, Tyler Nelson, Dallas Daaren.

Grants, Gifts, and Contracts

Awarded

- National Institutes of Health. COBRE in nutrition and women's health. PI: Michelle McGuire. Co-Is: Yimin Chen, Ann Brown, Ginny Lane, Janet Williams. January 15, 2024 – January 14, 2029. \$11,928,535.
- Alcohol and Drug Abuse Research Program (ADARP) Dedicated to Marijuana Account (DMAc) Grants. "Volatile organic compounds (VOC) metabolites in the urine of breastfed infants whose mothers frequently use cannabis." PI: Courtney Meehan Co-Is: Michelle McGuire, Mark McGuire, Benjamin Blount, Deepak Bhandari. \$50,000. Jan. 2024-Dec. 2024. (\$0 spending authority)
- National Institutes of Health. A multi-omics approach to understanding impact of cannabis use on human milk composition. PI: Courtney L. Meehan Co-Is: Michelle McGuire, Tom Metz, Celestina Barbosa-Leiker, David Gang, Mark A McGuire, Elizabeth Holdsworth. \$469,897. Jan. 2024-Dec. 2025.
- National Institutes of Health (subcontract from University of Kentucky). Investigating the impact of Moringa oleifera leaf supplementation on breastmilk quantity, quality, and maternal and child nutritional and intestinal health, a randomized controlled trial. PI: Suzanna Attia. Co-I: Michelle McGuire. Aug. 2022-July 2023. \$13,500 (\$0 spending authority).
- International Society for Research in Human Milk and Lactation. Impact of time of day and time during feed on human milk proteomics. Co-PIs: Alexandra Gogel, Michelle McGuire. Aug. 2022-July 2023. \$10,000 (full spending authority).
- Alcohol and Drug Abuse Research Program (ADARP) Dedicated Marijuana Account (DMAc) Grants. "Maternal cannabis use during breastfeeding: impact on infant urinary cannabinoid and cannabinoid metabolite concentrations" PI: Courtney L. Meehan. Co-Is: Celestina-Barbosa Leiker, David Gang, Michelle K. McGuire. \$25,000 (\$0 spending authority). Aug. 2021-July 2023.
- Idaho Beef Council. Early beef consumption in Idaho: Perceptions, practices, and relationship to child cognition. PI: Annie Roe. Collaborator: Michelle McGuire. March 2021-July 2022. \$50,000 (\$0 spending authority)
- Western Australian Future Health, Research, and Innovation Fund. Determinants of human milk-mediated protective

- immunity against COVID-19. PI: Valerie Verhasselt. Co-Is: Patricia Macchiaverni, Lieke W.J. van den Elsen, Allison Imrie, Juan M Rodriguez, Michelle McGuire, Melinda Boss. July 2020-June 2022, \$247,830 (\$0 spending authority)
- Dairy West, “University of Idaho Athletic Fueling Center Sports Nutrition Grant.” PI: Ann Brown. Collaborators: Chris Walsh, Annie Roe, Michelle McGuire, Mahmood Sheikh, Jennie Hall, Jim Miller. Sept. 2020-Aug. 2021. \$30,000 (\$0 spending authority).
- Idaho Department of Commerce, “Free to Feed Food Allergen Test Kit for human milk.” PI: Michelle McGuire. Co-Is: Trillitye Paullin, Mark McGuire. July, 2020-January, 2022. \$212,000 (full spending authority).
- National Science Foundation, “RAPID: Collaborative Research SARS-CoV-2 infection in mother-infant dyads.” PI: Michelle McGuire. Co-PIs at University of Idaho: Mark McGuire, Janet Williams, Ryan Pace. Collaborators at Washington State University: Courtney Meehan, Celestina Barbosa-Leiker. Collaborators at University of Washington: Melanie Martin, Eleanor Brindle, Daniel Eisenberg. Collaborator at Tulane University: Sylvia Ley. May 2020-May 2022. University of Idaho’s spending authority: \$101,268 (full spending authority).
- Bill and Melinda Gates Foundation, “SARS-CoV-2 in human milk: assay validation and detection in COVID-19+ women.” PI: Michelle McGuire. Co-PIs: Mark McGuire, Ryan Pace, Janet Williams, Kirsi Jarvinen-Seppo, Antti Seppo. May 1, 2020-Oct. 31, 2020. \$315,048 (full spending authority).
- Medela, “COVID-19 and breastfeeding research.” CoPIs: Michelle McGuire, Mark McGuire, Ryan Pace, Janet Williams. Gift grant (donation of pumps and pump kits) with worth of \$9,000. 2020
- Medela, “Understanding early variation and impacts on risk for mammary inflammation in women.” CoPIs: Mark McGuire, Michelle McGuire. Gift grant (donation of pumps and pump kits) with worth of \$39,313. 2019
- NIH, “Physiological and psychological health disparities among rural and urban adolescents.” PI: Ann Brown. Collaborator: Clarissa Richardson. Mentor: Michelle McGuire. July, 2019-June, 2020. \$66,000 (\$0 spending authority).
- USDA/NIFA, “Customized food safety education strategy for hard-to-reach audiences in the Western Pacific islands.” Note that I became the official PI for this grant in 2023. This was a professional courtesy to Dr. Jang Ho Kim who wrote the proposal and continues to oversee all aspects of the grant. Dr. Kim left the University of Idaho in 2023 but wished to finish out the grant, so this is the arrangement we made for him to do that. \$299,735; full spending authority with Dr. Kim.
- NIH, “Understanding early variation and impacts on risk for mammary inflammation in cows and women.” PI: Michelle McGuire. Co-Is: Mark McGuire, Lawrence Fox, Juan Miguel Rodriguez, Janet Williams, Tom Metz, Janet Jansson. Jan. 2019-Dec. 2024. \$2,712,249 (full spending authority).
- National Science Foundation, “Acquisition of a total reflection X-ray fluorescence spectrometer to enable ultra-trace element analysis at Washington State University.” PI: Hans Kunz. Co-Is: Jeremiah Busch, Lee Kalcsits, Michael Knoblauch, Michelle McGuire, Karen Sanguinet, Tarah Sulliva, Mechthild Tegeder. July 1, 2018-June 20, 2020. \$298,980 (\$0 spending authority).
- Bill and Melinda Gates Foundation, “Breast milk quality by maternal nutritional status among lactating women in rural Bangladesh: an analysis from the JiVitA-3 trial bioarchives.” PI: Kerry Schulze. Co-Is: Lars Bode, Mark McGuire, Michelle McGuire. March 1, 2018-Nov. 1, 2019. \$199,993 (\$50,000 spending authority).
- Food and Agriculture Organization (FAO) and the United Nations Children’s Fund (UNICEF). “Livestock programming for nutritional improvements in children under five years of age.” PI: Thumbi Mwangi Co-Is: Michelle McGuire, Jonathan Yoder, Guy Palmer, Salome Bukachi. Aug. 1, 2018-July 31, 2020. \$2,000,000 (\$0 spending authority).
- US Department of Agriculture, “Conference on dairy foods: Management, production, bioactive components to enhance health.” Co-PIs: Mark McGuire, Michelle McGuire, Naomi Fukagawa, John Finley. Jan. 2, 2018-March 1, 2020. \$49,974 (full spending authority).
- WSU Office of Commercialization, “The IntelliBra.” Co-PIs: Arda Gozen, Michelle McGuire. Collaborators: Abhishek Gannaranpu, Kimberly Lackey. Feb. 1, 2018-Jan. 31, 2019. \$50,000 (full spending authority).
- Bill and Melinda Gates Foundation. “Characterizing pathogen-specific antibodies in human milk.” PI: Michelle McGuire. Co-Is: Mark McGuire, Courtney Meehan, Janet Williams, Juan Miguel Rodriguez, Xiaowu Liang, Gary Hermanson, Joe Campo, Arlo Randall, Krista Trappl. May, 2017-April, 2018. \$329,934 (full spending authority).
- National Science Foundation, “What is normal milk? – Exploring sociocultural, evolutionary, environmental, and

- microbial aspects of human milk composition.” PI: Michelle McGuire. Co-PIs: Courtney Meehan, Lars Bode, James Foster, Sophie Moore. August 15, 2013-August 14, 2019, \$950,000 (full spending authority).
- WSU Nutritional Genomics Grand Challenges Seed Grant. “Nutritional genomics of human milk – relating variation in host genomics to milk composition.” PI: Michelle McGuire. Co-PIs: Courtney Meehan, Mark McGuire. May, 2017-April, 2019. \$80,000 (full spending authority).
- Medela. “Childcare choices, microbiomes, and infant behavior – are they related?” PI: Michelle McGuire. April, 2017. \$23,500 (in kind).
- International Society for Research in Human Milk and Lactation, “Breastfeeding, Lactation, and International Public Policy.” Co-PIs: Sarah Boothman, Michelle McGuire. April 30, 2017-December 31, 2017. \$10,000 (full spending authority).
- International Society for Research in Human Milk and Lactation, “Leprosy – is it in human milk?” Co-PIs: Kimberly Lackey, Michelle McGuire. March 1, 2017-December 31, 2017. \$10,000 (full spending authority).
- WSU Health Equity and Diversity Grand Challenge seed grant competition, “Childcare choices, microbiomes, and infant behavior – are they related?” Co-PIs: Courtney Meehan, Michelle McGuire, Edward Hagen, Maria Garstein. Jan. 2017-Dec. 2018. \$20,000 (\$0 spending authority).
- WSU Office of Research Strategic Reallocation Initiative, “Nutritional genomics and smart foods for optimal nutrition and health in diverse populations.” Co-PIs: John Roll, Idjet Duncan, Michelle McGuire, Guy Palmer. July 1, 2016-June 30, 2021. \$2,491,430 (\$0 spending authority).
- WSU Grand Challenge Seed Grant Competition. “Developmental origins of health and disease: Identifying potential mechanisms for intergenerational transmission of risk and resilience.” Co-PIs: Waters, Garstein, Pexioto, Connolly, McGuire. June 1, 2016-May 31, 2017. \$75,000 (\$0 spending authority).
- Edward R. Meyer Award (WSU), “Examining the evidence and dogma related to leprosy and breastfeeding.” PI: Michelle McGuire. November, 2015-March, 2017. \$5,000 (full spending authority).
- NSF BEACON, “Has evolution of human milk sugars responded to a biocultural sweet tooth?” Co-PIs: Brenda Murdoch, Michelle McGuire, Mark McGuire, Lars Bode, James Foster, Matt Settles. May 1, 2015-April 30, 2017, \$124,500 (full spending authority).
- Monsanto Company (unrestricted research grant), “Support for research in human milk and lactation.” PI: Michelle McGuire. November, 2014-October, 2015. \$10,000 (full spending authority).
- WSU Proposal Development Stimulus Program, “Proof-of-concept that maternal diet is related to human milk and infant fecal microbiomes.” PI: Michelle McGuire. June 1, 2013-May 31, 2014, \$40,000 (full spending authority).
- Abbott Nutrition, “The milk microbiome and its role in necrotizing enterocolitis.” PI: Lars Bode (University of California San Diego) Co-PIs: Michelle McGuire, Mark McGuire. July 1, 2011-June 30, 2015, \$145,727 (full spending authority).
- Bill and Melinda Gates Foundation. “Development of functional foods and breast creams that decrease infectious disease in infants.” PI: Michelle McGuire Co-PI: Mark McGuire. Nov. 1, 2010-Nov. 15, 2012, \$100,000 (full spending authority).
- United Dairymen of Idaho, “Effect of c9,t11-18:2 conjugated linoleic acid (CLA) supplements and consumption of high fat dairy products on gene expression in the lactating human mammary epithelial cell.” PI: Michelle McGuire Co-PIs: Mark McGuire, Janet Williams. Dec.1, 2006 – Nov. 30, 2010, \$204,314 (full spending authority).
- United Dairymen of Idaho, “Documentation of the steroid content of bovine milk.” PI: Mark McGuire (University of Idaho) Co-PIs: Michelle McGuire, Amin Amadzadeh, Joe Dalton, Mireilee Chahine, Rick Norell. March 1, 2007 – Feb. 28, 2010, \$98,730 (\$0 spending authority).
- WSU Cancer Prevention and Research Center, “Effect of CLA supplementation on mammary gene expression in lactating women.” PI: Michelle McGuire. June 1, 2005 - May 31, 2006, \$4,000 (full spending authority).
- Idaho Beef Council, “Metabolism of vaccenic acid in women: Impact on fatty acids in circulation.” PI: Michelle McGuire. Co-PI: Mark McGuire. July 1, 2004-June 30, 2005, \$35,663 (full spending authority).
- United States Department of Agriculture, “Effect of conjugated linoleic acid intake on milk fat content and growth during the early postnatal period.” PI: Michelle McGuire. Co-PI: Mark McGuire. Dec. 15, 2000-Dec. 14, 2004, \$220,011 (full spending authority).

- Washington State Dairy Products Commission, "State of the art determination of trans fatty acids (TFA) and conjugated linoleic acids (CLA)." PI: Michelle McGuire. Co-PIs: Mark McGuire, Mikko Griinari. Jan. 1, 2002-Dec. 31, 2004, \$42,886 (full spending authority).
- Washington State Dairy Products Commission, "Determination of isomeric trans fatty acids (including conjugated linoleic acids) in plasma lipid fractions of lactating women consuming butter, regular margarine and no-trans-fat margarine." PI: Michelle McGuire. Co-PIs: Mark McGuire, Mohammed Shahin Alam. January 2003-December 2004, \$32,500 (full spending authority).
- International Life Sciences Institute Future Leader Award, "Isomeric conjugated linoleic acid intake and milk fat regulation in humans." PI: Michelle McGuire. Nov. 1, 2001-Oct. 31, 2003, \$30,000 (full spending authority).
- United Dairymen of Idaho, "Determination of the relationship between maternal circulating isomeric conjugated linoleic acid (CLA) and human milk isomeric CLA concentrations; potential relationships with milk fat content." PI: Michelle McGuire. Co-PIs: Mark McGuire, Anne Wright, Jan. 1-Dec. 31, 2002, \$36,500 (full spending authority).
- Washington State Vitamin Antitrust Lawsuit Settlement Fund, "The effect of phytoestrogen intake and phytoestrogen supplementation on working memory and visuospatial abilities in postmenopausal women." PI: Kathy Beerman. Co-PIs: Michelle McGuire, Lisa Fournier, Tracy Skaer, David Sclar, Linda Robinson. May 16, 2002-May 15, 2005, \$183,640 (\$0 spending authority).
- United States Department of Agriculture, "GC-MS for multi-disciplinary ecological studies." PI: Mark McGuire. Co-PIs: Michelle McGuire, Sanford Eigenbrode, Matthew Morra. July 1, 2003-June 30, 2004, \$50,000 (\$0 spending authority).
- Idaho Beef Council, "Role of dietary conjugated linoleic acid (CLA) in inhibiting mammary tumor growth: Regulation of immune response, apoptosis, and gene expression." PI: Mark McGuire. Co-PIs: Michelle McGuire, Boon Chew, Jean-Soon Park. July 1, 2003-June 30, 2004, \$29,490 (full spending authority).
- Baxter Research, "Role of dietary conjugated linoleic acid (CLA) in inhibiting mammary tumor growth: regulation of immune response, apoptosis, and gene expression." PI: Boon Chew. Co-PIs: Jean Soon Park, Mark McGuire, Michelle McGuire. July 2002-June 2003, \$20,000 (\$0 spending authority).
- Idaho Beef Council, "The interaction of fat intake and trans-10, cis-12 conjugated linoleic acid (CLA) on milk fat and neonatal growth," PI: Mark McGuire. Co-PI: Michelle McGuire. July 1, 2002-June 30, 2003, \$30,000 (full spending authority).
- Dairy Management Incorporation, "Production of dairy products naturally enriched with CLA: relevance to human health." PI: Michelle McGuire Co-PIs: Mark McGuire, Terry Shultz, Terri Boylston, Lloyd Luedecke. Oct. 1, 1996-Dec. 31, 1998, \$94,877 (full spending authority).
- Pharmanutrients, "Documentation of the conjugated linoleic acid consumption of breastfed infants, preschoolers and school-aged children." PI: Michelle McGuire. Sept. 1, 2000-Oct. 31, 2001, \$12,000 (full spending authority).
- American Cancer Society Institutional Grant Program, "Role of lactation and dietary conjugated linoleic acid (CLA) intake during the postpartum period on mammary cancer in rat dams and their suckling neonates." PI: Michelle McGuire. Co-PI: Mark McGuire. Sept., 1999-Aug., 2000, \$20,000 (full spending authority).
- Western Dairy Center, "Effect of butter and margarine intake on human milk CLA and fat concentrations in lactating women," PI: Michelle McGuire. Co-PIs: Mark McGuire, Kathy Beerman. Aug. 1, 1998-Dec. 31, 2000. \$25,000 (full spending authority)
- Washington State Dairy Products Commission, "Role of dairy products in cancer prevention: effect of milk-derived conjugated linoleic acid consumption on immune function in lactating women." PI: Michelle McGuire. Co-PIs: Terry Shultz, Lloyd Leuedecke, Mark McGuire, Kristin Ritzenthaler. Dec. 1999-Nov., 2000, \$28,298 (full spending authority).
- University of Idaho Research Council Seed Grant, "The effect of dietary conjugated linoleic acid on milk fat synthesis and neonatal growth." PI: Mark McGuire. Co-PI: Michelle McGuire. July 1, 1999-June 30, 2000. \$6,000 (\$0 spending authority).
- Idaho Beef Council, "Effect of isomeric conjugated linoleic acid content on growth of the neonatal rat pup." PI: Mark McGuire. Co-PI: Michelle McGuire. June, 1999-July, 2000, \$13,494 (full spending authority).
- United Dairymen of Idaho, "Role of dietary conjugated linoleic acid (CLA) in neonatal growth and mammary cancer." PI:

- Mark McGuire. Co-PI: Michelle McGuire. Jan. 1, 1998-Dec. 31, 1998, \$13,100 (\$0 spending authority).
United Dairymen of Idaho, "Trans fatty acids: the role of individual isomers in human and bovine milk fat synthesis," PI: Mark McGuire. Co-PI: Michelle McGuire. Jan. 1, 1998-Dec. 31, 1998, \$4,600 (\$0 spending authority).
University of Idaho Research Council Seed Grant, "Effect of maternal conjugated linoleic acid (CLA) intake on pup growth and body composition and maternal mammary carcinogenesis." PI: Mark McGuire. Co-PI: Michelle McGuire. July 1, 1997-June 30, 1998, \$6,000 (\$0 spending authority).
Idaho Beef Council, "The relationship between dietary conjugated linoleic acid and CLA in various hematologic fractions," PI: Michelle McGuire. Co-PI: Mark McGuire. July 1, 1998-June 30, 1999, \$25,695 (full spending authority).
Finnish Food Industry Research Program on Animal Fats, "The relationship between dietary conjugated linoleic acid and CLA in various hematologic fractions," PI: Michelle McGuire. Co-PI: Mark McGuire. May 1, 1998-April 30, 1999, \$20,760 (full spending authority).
National Cattlemen's Beef Association, "Determination of conjugated linoleic acid (CLA) intake in humans." PI: Michelle McGuire. Co-PIs: Mark McGuire, Terry Shultz. May 1, 1997-April 31, 1998, \$59,362 (full spending authority).
Pharmanutrients, "Effect of conjugated linoleic acid (CLA) supplement intake on human milk CLA concentration and fat content." PI: Michelle McGuire Co-PI: Mark McGuire. December 1, 1997-November 30, 1998, \$7,903 (full spending authority).
University of Idaho Research Council Seed Grant, "Increasing conjugated linoleic acid content of beef and milk to improve human health." PI: Mark McGuire. Co-PI: Michelle McGuire. July 1, 1996-June 30, 1997, \$5,530 (\$0 spending authority).
National Institutes of Health Grant HDR0128663, "Regulation of postpartum fecundity by nutrition and suckling in the laboratory rat." PI: Kathleen Rasmussen. Co-PI: Michelle McGuire. 1994-1996, \$287,000 (full spending authority).

Not Awarded

- National Institutes of Health. Exploring associations among maternal/infant COVID-19, gastrointestinal microbiome, and milk composition - A systems biology approach. PIs: Michelle McGuire, Ryan Pace. Co-Is: Mark McGuire, Janet Williams. Sept. 24, 2023 – Sept. 23, 2025. \$409,412.
National Institutes of Health. Daily intraindividual variation in human milk composition and its association with infant growth. PI: Elizabeth Holdsworth. Co-investigators: Michelle McGuire, Courtney Meehan, Mark McGuire, Janet Williams. \$423,828
National Endowment for the Humanities. "Renovation of University of Idaho's Hays Hall for curation and preservation of the Leila Old Historic Costume Collection." Co-PIs: Sonya Meyer, Michelle McGuire. Co-Is: Shauna Corry, Ben Hunter, Sean Quinlan, Redgy Erb, Jen Root. Sept. 1, 2023 – Aug. 8, 2026. \$500,000.
National Institutes of Health. COBRE in nutrition and women's health. PI: Michelle McGuire. Co-Is: Yimin Chen, Ann Brown, Ginny Lane, Janet Williams. January 15, 2023 – January 14, 2028. \$11,943,571.
National Institutes of Health. A multi-omics approach to understanding impact of cannabis use on human milk composition. PI: Courtney L. Meehan Co-Is: Michelle McGuire, Tom Metz, Celestina Barbosa-Leiker, David Gang, Mark A McGuire, Elizabeth Holdsworth. \$469,897.
National Institutes of Health. Maternal, infant & environmental influences on human milk composition and the impact of nutrition interventions. PI: Michelle McGuire. Co-Is: Mark McGuire, Janet Williams. \$180,597 (subcontract). July 1, 2022 – June 30, 2025.
National Institutes of Health. Human milk as a biological system: exploring complex linkages to infant health. PI: Michelle McGuire. Co-Is: Mark McGuire, Courtney Meehan, Julia Piaskowski, William Price, Kerry Schulze, Janet Williams, Min Xian, Daniela Barile. July 1, 2022 - June 30, 2027. \$3,795,750.
International Society for Research in Human Milk and Lactation. Evaluation of human milk immunologic factors. Co-PIs: Ryan Pace, Michelle McGuire. \$10,000.
University of Idaho (VIP grants). Increasing food and nutrition student enrollment through culinary base camp. PI: Katie Miner. Collaborators: Michelle McGuire and Lori Wahl. \$15,000.

- National Institutes of Health. "Impact of SARS-CoV-2 on infant feeding practices: a multi-site study. need to add details here." Co-PIs: Michelle McGuire, Mark McGuire, Courtney Meehan. Co-Is: William Price, Celestina Barbosa-Leiker, Eleanor Brindle, Carlito Lebrilla, Sylvia Ley, \$3,424,474.
- Australian National Health and Medical Research Council. "Determinants of human milk-mediated protective immunity against COVID-19." PI: Valerie Verhasselt. Co-Is: Michelle McGuire, P Macchiaverni, A Imrie, L van den Elsen, J Rodriguez, T Kollmann, \$240,110.
- FastGrants, "Breastfeeding during the COVID-19 pandemic: Understanding risks and benefits." PI: Michelle McGuire. Co-PIs: Mark McGuire, Janet Williams, Ryan Pace, Courtney Meehan, Celestina Barbosa-Liker, Kirsi Jarvinen-Seppo, Antti Seppo, Sylvia Ley, Melanie Martin, Dan Eisenberg, Eleanor Brindle. August 16, 2020-February 15, 2021, \$293,907.
- ISF Incubator, "Determination of the accuracy and calibration needs of technology # 1791 – Intellibra." CoPIs: Michelle McGuire and Arda Gozen, 2020, \$271,347.
- International Society for Research in Human Milk and Lactation, "Trainee travel grant to Johns Hopkins University and Gaibandha, Bangladesh for human milk collection." CoPIs: Alexandra Gogel, Michelle McGuire. March-August, 2020. \$9,981.
- International Society for Research in Human Milk and Lactation. "Milk matters: Understanding the ecological dynamics of milk and infant microbiomes." CoPIs: Michelle McGuire, Ryan Pace, Mark McGuire. \$100,000.
- Bill and Melinda Gates Foundation, "Human milk immunospecificity, microbiomes, and malaria risk in Ugandan infants." Co-PIs: Michelle McGuire, Thomas Egwang, Joe Campo, Mark McGuire, Janet Williams. \$200,000.
- National Institutes of Health, "Human milk and infant fecal microbiomes: nutritional and behavioral determinants." Co-PIs: Mark McGuire, Michelle McGuire, Courtney Meehan, Janet Williams, William Price, Rossina Pareja. \$2,831,108.
- Gerber Foundation, "Effect of timing of beef-containing complementary foods nutritional status, enteric microbiome, and behavior of infants: a randomized controlled trial." Co-PIs: Michael Colle, Pedram Rezamand, Michelle McGuire, Ling-Ling Tsao, Janet Williams. \$350,000. (preproposal)
- Family Larsson-Rosenquist Foundation, "It's alive! The multibiome of human milk; relating variation and functions to mammary inflammation." Collaborators: Michelle McGuire, Courtney Meehan, Juan Miguel Rodriguez, Janet Williams, Mark McGuire. \$307,450. (concept paper)
- Family Larsson-Rosenquist Foundation, "Human milk: Exploring impacts of its non-nutritive components on child health, temperament, and behavior." Co-PIs: Courtney Meehan, Michelle McGuire, Mark McGuire, Janet Williams, William Price, Juan Miguel Rodriguez, Gloria Otoo, Rossina Pareja, Elizabeth Kamau-Mbuthia. \$1,999,265. (concept paper)
- National Institutes of Health, "Nutritional Genomics of Human Milk Composition - Has Selective Evolution Shaped Human Milk to be the Quintessential "Smart Food?" \$3,500,000. PI: Michelle McGuire.
- Bill and Melinda Gates Foundation. "IntelliBra - Redefining confidence for breastfeeding women." co-PIs: Michelle McGuire and Arda Gozen. \$100,000.
- American Society of Nutrition/Dannon Institute Yogurt in Nutrition, "Proof-of-concept that maternal consumption of conventional yogurt during breastfeeding influences milk and infant fecal microbiomes." CoPIs: Michelle McGuire, Mark McGuire, Janet Williams, Kimberlee Burrington. \$30,000.
- NIH/USDA, "Understanding early variation and impacts on risk for mammary inflammation in cows and women." CoPIs: Mark McGuire, Michelle McGuire. Collaborators: Lawrence Fox, Juan Miguel Rodriguez, Janet Williams, Christopher Remien, Benjamin Ridenhour. \$2,502,451.
- BUILD Dairy (Managed by the Western Dairy Center at Utah State University). "Proof-of-concept that maternal consumption of conventional yogurt during breastfeeding influences milk and maternal-infant fecal microbiomes." CoPIs: Michelle McGuire, Mark McGuire. \$180,000. (preproposal)
- Family Larsson Rosenquist Foundation. "IntelliBra – Redefining confidence for breastfeeding women." CoPIs: Arda Gozen, Michelle McGuire. \$145,783. (preproposal)
- National Institutes of Health (R01), "Why are Dutch babies happier? The role of fetal programming." Garstein, McGuire. \$356,757.

- WSU Grand Challenge Seed Grant Completion. "Human milk: Mother Nature's quintessential "smart food?" McGuire, Gomulkeiwicz, Meehan, Gang. \$75,000. Letter of intent.
- WSU Grand Challenge Seed Grant Completion. "Understanding breastfeeding and impact on fecal microbiome in native Americans and Alaska natives." McGuire, Sinclair, Zamora-Kapoor, Buchwald, Duncan. \$75,000. Letter of intent.
- National Institutes of Health R21, "Modeling relationships among complex microbial communities in milk, maternal feces, maternal saliva, maternal breast skin, infant saliva, and infant feces during the first 6 mo postpartum." Co-PIs: Michelle McGuire and Mark McGuire. \$289,821.
- Wellcome Trust, "Is the social stigma justified: can viable Mycobacterium leprae be transmitted through human milk to infants?" CoPIs: Deanna Hagge, Diana Williams, Courtney Meehan, Bill Price, Michelle McGuire. \$1,069,999.
- National Institutes of Health (R01), "Kendall Yards." Duncan, Sterling, McGuire. \$3,142,074.
- NSF BEACON, "Has evolution of human milk sugars responded to a biocultural sweet tooth?" Murdoch, McGuire, McGuire, Foster, Williams. \$112,500.
- The Danish Dairy Research Foundation, "Characterization of metabolomics profiles in human milk produced by healthy women around the globe." Kræmer Sundekilde, Bertram, McGuire. \$178,000.
- WSU Grand Challenge Seed Grant Completion. "Developing "smart wheat" genotypes for gluten-sensitive and celiac patients." Rustgi, McGuire, Ankrah. \$75,000. Letter of intent.
- National Institutes of Health R21. "Factors that influence milk microbial communities leading to lactational mastitis." PI: Mark McGuire Co-PIs: Michelle McGuire, Katherine Hunt. August 15, 2013-August 14, 2015, \$398,590.
- National Institute of Health R15. "Human milk oligosaccharides stimulate growth of Staphylococcus." \$429,542. PI: Mark McGuire Co-PI: Michelle McGuire.
- Thrasher Research Fund, "Influence of human milk oligosaccharides and bacteria on the development of the infant gut microbiome." PI: Mark McGuire Co-PI: Michelle McGuire. \$274,210.
- Berry Family Faculty Excellence Fellowship. "Human milk microbiome and composition: a cross-cultural study among foragers and farmers." PI: Courtney Meehan Co-PI: Michelle McGuire. Jan. 1, 2011-Dec. 31, 2011.
- Bill and Melinda Gates Foundation (Concept Memo), "Proof-of-Concept: Use of molecular methods to investigate if M. leprae can be vertically transmitted from mother to infant during breastfeeding." PI: Michelle McGuire. \$297,413.
- The Heiser Program for Research in Leprosy, "Use of molecular methods to investigate M. leprae in human milk; proof-of-concept." PI: Michelle McGuire. Co-PIs: Deanna Hagge, Kidist Bobosha, Srikanth Tripathy, Keshar Mohanty, Devendra Chauhan, Partha Mohanty, Beenu Joshi, Diana Williams, Courtney Meehan. \$287,413.
- Bill and Melinda Gates Foundation, "Improving household nutrition, health and economic welfare through livestock." PI: Thumbi Mwangi; Co-PIs: Michelle McGuire, Guy Palmer, Tom Marsh, Jon Yoder, Kariuki Njenga, Terry McElwain, Joyce Olenja. \$109,427.
- CCFW Initiative in Inequality of Opportunity and Disadvantage in Children and Families Small Pilot Grant (University of Washington), "Documentation of human milk microbiome among Native Americans." PI: Dedra Buchwald; Co-PIs: Michelle McGuire, Mark McGuire. \$20,000.
- NIH IBEST, "Recent changes in human milk oligosaccharides (HMO) driven by maternal genetics?" Co-PIs: Michelle McGuire, Mark McGuire, Lars Bode, James Foster, Brenda Murdoch, Matt Settles. \$150,000.
- Leprosy Research Initiative, "Proof-of-concept that M. leprae can be vertically transmitted from mother to child during breastfeeding; validation and use of molecular methods." PI: Michelle McGuire. \$61,955.
- Dairy Research Initiative, "Proof of concept: yogurt consumption during pregnancy and lactation affects establishment of the infant's gastrointestinal microbiome." PI: Michelle McGuire Co-PIs: Mark McGuire, James Foster. August 15, 2013-August 14, 2016, \$400,000.
- National Institutes of Health (IBEST Pilot Program), "Using Technology to Determine the Microbiome of Healthy and Mastitic Milk." PI: Mark McGuire Co-PI: Michelle McGuire, June 1, 2009-May 31, 2011, \$80,000.
- Bill and Melinda Gates Foundation. "The International Human Milk Microbiome Project (IHMMMP): standardization of methods and cross-cultural analysis of human milk samples." PI: Michelle McGuire Co-PIs: Mark McGuire, Juan Miguel Rodriguez, Courtney Meehan, Andrew Prentice, Daniel Sellen, Grace Marquis, Robin Goldstein, Linda Kvist. May 15, 2013-May 14, 2015, \$1,000,000.
- National Institutes of Health R21. "Proof of concept: changes in body fat modulate return of postpartum fecundity." PI:

- Michelle McGuire Co-PIs: Jan Dasgupta. May 15, 2013-May 14, 2015. \$404,060.
- JL Stubblefield Trust and Bonnie and Clifford Braden Foundation. "Proof-of-concept: documentation of *Mycobacterium Leprae* in human milk." PI: Michelle McGuire. \$8,324,
- JL Stubblefield Trust and Bonnie and Clifford Braden Foundation. "The human milk microbiome – identifying maternal factors that can impact bacterial colonization of the infant gastrointestinal tract." PI: Michelle McGuire \$10,024.
- Gerber Foundation, "Documentation of bisphenol A (BPA) content of human milk and environmental BPA exposure of U.S. breastfed infants." PI: Michelle McGuire Co-PI: Mark McGuire \$167,934.
- Gerber Foundation, "The human milk microbiome – Identifying maternal factors that impact bacterial colonization of the infant gastrointestinal tract." PI: Michelle McGuire Co-PI: Mark McGuire \$118,863.
- Gerber Foundation, "Influence of human milk oligosaccharides and bacteria on the development of the infant gut microbiome." PI: Michelle McGuire Co-PI: Mark McGuire \$295,000.
- Gerber Foundation, "Documentation of bisphenol A (BPA) content of human milk and environmental BPA exposure of U.S. breastfed infants." PI: Michelle McGuire Co-PI: Mark McGuire \$206,566.
- Bill and Melinda Gates Foundation. "Understanding physiological mechanisms driving lactation initiation and optimal milk production to achieve healthy growth in early infancy," PI: Michelle McGuire Co-PI: Mark McGuire \$100,000.
- Bill and Melinda Gates Foundation. "Development of use-friendly "test strips" to predict and enhance breastfeeding success." PI: Michelle McGuire Co-PIs: Mark McGuire, Ming Xian. March 1, 2011-Feb. 31, 2012, \$100,000.
- National Institutes of Health. "Nitric oxide, lactogenesis, and obesity." PI: Michelle McGuire Co-PIs: Mark McGuire, Ming Xian. June 15, 2011-June 14, 2013, \$408,188.
- National Institutes of Health. "Relationships among time postpartum, related factors, and human milk microbiome." PI: Michelle McGuire Co-PI: Mark McGuire. June 15, 2011-June 14, 2013, \$357,490.
- Gerber Foundation. "Use of milk/saliva nitric oxide (NO) as a biomarker for breastfeeding difficulties and need for intervention." PI: Michelle McGuire Co-PI: Mark McGuire. Aug. 1, 2011-July 31, 2013, \$182,525.
- National Institutes of Health. "Involvement of nitric oxide in timing of stage II lactogenesis in lean and obese women." PI: Michelle McGuire Co-PI: Mark McGuire. December 1, 2010-November 30, 2012, \$415,689.
- National Institutes of Health. "Relationships among time postpartum, related factors, and human milk microbiome." PI: Michelle McGuire Co-PI: Mark McGuire. December 1, 2010-November 30, 2012, \$357,490.
- Bill and Melinda Gates Foundation. "Development of functional foods and breast creams that induce infant gut mucosal immunity." PI: Michelle McGuire Co-PIs: Mike Konkel, Mark McGuire. May 15, 2010-May 14, 2011, \$100,000.
- Bill and Melinda Gates Foundation. "Development of pre- and probiotic foods for decreasing breast infections and infant illness." PI: Michelle McGuire Co-PIs: Mark McGuire, Larry Forney. May 15, 2010-May 14, 2011, \$100,000.
- Washington State Dairy Products Commission, "Role of dietary conjugated linoleic acid (CLA) in inhibiting leukemia virus replication and growth of virus-infected cells in vitro. PI: Michelle McGuire Co-PI: Jean Soon Park. Sept., 2006-Aug., 2008, \$22,750.
- Lipid Nutrition and Cognis, "Effect of conjugated linoleic acid (CLA) isomer mixtures on milk fat content in overweight/obese lactating women." PI: Michelle McGuire Co-PI: Mark McGuire. Dec. 1, 2006 – Nov. 30, 2007, \$288,917.
- National Institutes of Health, "Impact of inflammation and nitric oxide on onset of lactation in lean and obese women." PI: Michelle McGuire Co-PIs: Mark McGuire, Raymond Quock. Jan. 1, 2008 – Dec. 31, 2010, \$212,604.
- United States Department of Agriculture, "Regulation of human milk conjugated linoleic acid (CLA) content - bioavailability, mammary uptake and de novo synthesis." PI: Michelle McGuire Co-PI: Mark McGuire. Aug. 2005 - July, 2008, \$516,045.
- National Institutes of Health, "Novel use of microarray analysis during human lactation." (resubmission) Co-investigators: PI: Michelle McGuire Co-PIs: Janet Williams, Mark McGuire. Aug. 2005-July. 2007, \$146,800.
- Bristol-Meyers Mead Johnson, "Evaluation of de novo synthesis of cis-9, trans-11 18:2 (conjugated linoleic acid, CLA) from trans-11 18:1 (vaccenic acid) in the lactating, human mammary gland." PI: Michelle McGuire Co-PI: Mark McGuire. Dec. 1, 2004 - Nov. 30, 2005, \$31,500.
- Washington State Dairy Products Commission, "Effect of butter and margarine consumption on mammary lipid synthesis in the breastfeeding woman; Novel use of microarray analysis to study nutrient-gene interactions related to dairy

- intake." PI: Michelle McGuire Co-PI: Mark McGuire. Jan. 2004-Dec. 2005, \$92,693.
- United States Department of Agriculture, "Use of stable isotopes and microarray analysis to study milk fat regulation in humans and rats." PI: Michelle McGuire Co-PI: Mark McGuire. Jan. 1, 2005-Dec. 31, 2008, \$498,501
- National Institutes of Health, "Use of microarray analysis during human lactation." PI: Michelle McGuire Co-PIs: Mark McGuire, Janet Williams. Aug. 15, 2004-Aug. 14, 2007, \$540,686.
- Washington State Dairy Products Commission, "Effect of conjugated linoleic acid (CLA) supplementation on body weight, body fat and plasma lipid profile in college freshmen at Washington State University. PI: Michelle McGuire Co-PIs: Mark McGuire, Janet Williams. Jan. 2005-Dec. 2005, \$139,581.
- Gerber Foundation, "Role of dietary conjugated linoleic acid (CLA) intake during early life and lactation on long-term risk of mammary tumor growth in the lactating dam and her offspring: Regulation of immune response, apoptosis, and gene expression." PI: Michelle McGuire Co-PIs: Boon Chew, Jean Soon Park, Mark McGuire. Jan. 2004-Dec. 2004. \$78,082.
- Invitrogen, "Functional analysis of gene expression in human milk epithelial cells: potential model system for the study of nutrient-gene interactions in the human mammary gland." PI: Michelle McGuire Co-PIs: Mark McGuire, Janet Williams. Jan. 2004-Dec. 2004. \$78,000
- National Institutes of Health, "Regulation of human milk fat by diet and adiposity." PI: Michelle McGuire Co-PIs: Kathy Beerman, Mark McGuire, Alam Mohammed, Janet Williams. Dec. 2003-Nov. 2007, \$1,395,992.
- National Science Foundation, "Request for a state-of-the-art equipment cluster for analysis of lipids, lipid-like substances, antioxidants, vitamins and pyrimidines in human biological samples and food systems: Liquid chromatography-mass spectrometry (LC-MS) and gas chromatography-mass spectrometry (GC-MS)." PI: Michelle McGuire Co-PIs: M.S. Alam, Kathy Beerman, Joe Powers, Charles Edwards, Terry Shultz, Stephanie Clark, Mark McGuire, Lisa Fournier, David Sclar. \$310,950.
- National Institutes of Health, "Novel use of stable isotopes in lactation." PI: Michelle McGuire Co-PIs: Mark McGuire, Erin Mosley," July 1 2002-June 30, 2003, \$25,000.
- Attorney General of Washington Vitamins Settlement Fund, "Conjugated linoleic acid and human health." PI: Michelle McGuire Co-PIs: Mark McGuire, Terry Shultz, Sebastiano Banni. Jan. 1, 2002-Dec. 31, 2002, \$48,967.
- United States Department of Agriculture (IFAFS), "Intake and function of CLA and trans fatty acids in designer dairy products" PI: Michelle McGuire Co-PIs: Mark McGuire, Stephanie Clark, Lloyd Leudecke, Val Hillers. Sept. 1, 2001-Aug. 31, 2005, \$1,015,755.
- United States Department of Agriculture, "Acceptability and Impact on Human Health of High CLA Dairy Products" PI: Michelle McGuire Co-PIs: Mark McGuire, Stephanie Clark, Lloyd Leudecke. Aug. 15, 2001-Aug. 14, 2003, \$402,034.
- Washington State University New Faculty Seed Grant Program, "Characterization of the relationships among circulating leptin concentrations, body fat and ovulatory function in lactating and nonlactating women." PI: Michelle McGuire, July 1, 2000-June 30, 2001, \$8,000.
- National Institutes of Health, "Regulation of milk fat by conjugated linoleic acid." PI: Michelle McGuire Co-PI: Mark McGuire. Dec. 1, 1999-Nov. 30, 2002, \$445,825.
- United States Department of Agriculture, "Effect of isomeric conjugated linoleic acid intake on milk fat content and growth during the early postnatal period." PI: Michelle McGuire Co-PI: Mark McGuire. Aug. 16, 1999-Aug. 15, 2002, \$332,898.
- Washington State Dairy Products Commission, "Effect of bovine milk and isoflavone consumption on bone health in postmenopausal women." PI: Kathy Beerman Co-PI: Michelle McGuire, Boon Chew. Jan., 2004-Dec., 2004, \$33,469.
- National Institutes of Health, "Effect of dietary lipid on mammary fatty acid synthesis." PI: Peggy Neville (University of Colorado) Co-PIs: Michelle McGuire, Paul McLean. December, 2003-November, 2008, \$1,680,680.
- United State Department of Agriculture, "Enhancing milk CLA content; sensory characteristics and impact on health." PI: Stephanie Clark Co-PIs: Michelle McGuire, Mark McGuire, Virginia Hillers, Lloyd Leudecke. Sept. 1, 2000-Aug. 31, 2003, \$423,679.
- Dairy Management, Inc., "The effect of trans-vaccenic acid on mammary cancer." PI: Mark McGuire Co-PIs: Michelle McGuire, Mikko Griinari. Aug. 1, 2000-July 31, 2002, \$79,000.

MCGUIRE, Michelle (Shelley)

- Indian Health Service, "Documentation and characterization of the prevalence of and risk factors for type II diabetes among the Nez Perce." PI: Michelle McGuire Co-PIs: D'Lisa Penney-Pinkham, Karen Bachman-Carter. May, 1999-June, 2000, \$23,400.
- Ross Laboratories, "Effect of conjugated linoleic acid (CLA) supplement intake on human milk CLA concentration and fat content." PI: Michelle McGuire Co-PI: Mark McGuire. 1997, \$10,901
- United States Department of Agriculture, "Isomeric trans fatty acids and conjugated linoleic acid during human growth and development." PI: Michelle McGuire Co-PI: Mark McGuire, 1997, \$319,250.
- Dairy Management Incorporation, "The acute effects of milk fat intake on satiety and plasma leptin, cholecystokinin and conjugated linoleic acid concentrations; interaction with body composition." PI: Michelle McGuire Co-PIs: Mark McGuire, Kathy Beerman, 1997, \$48,328.
- United Dairymen of Idaho, "Trans fatty acids: The role of individual isomers in human and bovine milk fat synthesis." PI: Mark McGuire Co-PI: Michelle McGuire. 1997, \$5,610.
- United Dairymen of Idaho, "Role of dietary conjugated linoleic acid (CLA) in neonatal growth and mammary cancer." PI: Mark McGuire Co-PI: Michelle McGuire. 1997, \$14,425.
- University of Alabama at Birmingham, "Are there consequences of breastfeeding during late pregnancy on the subsequent lactation?" PI: Grace Marquis (University of Alabama) Co-PIs: Michelle McGuire, J. Paul Zimmer. 1996, \$20,000.
- State Board of Education (Idaho), "The influence of nutrition on a potent anticarcinogen, conjugated linoleic acid, in bovine and human milks." PI: Mark McGuire Co-PIs: Michelle McGuire, Terry Shultz. 1996, \$34,978.
- Ross Laboratories, "Importance of dietary CLA in neonatal health: possible effects on infant growth and nutrient partitioning in rats." PI: Michelle McGuire Co-PIs: Mark McGuire, Terry Shultz. 1996, \$55,592.
- American Scandinavian Foundation, "Effect of dietary consumption of isomeric trans fatty acids on milk fat content in humans." PI: Michelle McGuire Co-PI: Mark McGuire. 1996, \$3,978.
- American Institute of Cancer Research, "Modulation of breast cancer prevention by dietary conjugated linoleic acid in humans." Co-PIs: Michelle McGuire, Mark McGuire. 1996, \$161,109.
- National Institutes of Health, "Dietary conjugated linoleic acid in human development." PI: Michelle McGuire Co-PI: Mark McGuire. 1996, \$458,529.
- International Life Sciences Institute, "Integration of nutritional status, lactation and ovulatory function in two species: the lactating cow and the woman." PI: Michelle McGuire Co-PI: Mark McGuire. 1995, \$30,127.

TEACHING AND ADVISING

Areas of Teaching Specialization: nutrition, lifecycle nutrition, international nutrition, science communications

Courses Taught

- Introduction to Nutritional Sciences (3 credits); 40+ semesters; > 10,000 students
Science Communications (3 credits); 10 semesters; > 300 students
Advanced Readings in Nutrition (3 credits); 10 semesters; > 100 students
Lifecycle Nutrition (4 credits); 3 semesters; >100 students

Advising

Undergraduate Students Advised: 10-20 students each semester (1997-2018)

Graduate Students Advised as Major Professor – Current

- Betsy Church (MS Nutritional Sciences, FCS, UI), 2023-present
Cassandra Partridge (PhD Nutritional Sciences, FCS, UI), 2021-present
Alex Gogel (PhD Nutritional Sciences, FCS, UI), 2018-present
Sarah Boothman (PhD Zoology, SBS, WSU), 2016-present

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Graduate Students Advised as Major Professor – Completed

Kimberly Lackey (PhD Zoology, SBS, WSU), 2012-2018
Janae Mosely (MS Zoology, SBS, WSU), 2012-2014
Mara Riley (MS Zoology, SBS, WSU), 2010-2012
Natalie Collier (MS Nutrition, FSHN, WSU), 2003-2005
Afroza Hasin (MS Nutrition, FSHN, WSU), 2002-2004
Kristin Ritzenthaler (MS Nutrition, FSHN, WSU), 1996-1998

Kristin Ritzenthaler Hagen (PhD, FSHN, WSU), 1999-2002
Nicole Anderson (MS Nutrition, FSHN, WSU), 1999-2002
Colleen Doherty (MS Nutrition, FSHN, WSU), 1999-2002
Nikki Masters (MS Nutrition, FSHN, WSU), 1997-1999
Yongsoon Park (PhD Nutrition, FSHN, WSU), 1995-1998

Graduate Committee Member – Current

Beatrice Caffè (PhD, WSU), 2022-present

Graduate Committee Member – Completed

Haley Peterson (PhD AVFS, UI), 2018-2023
Katie Heckathorne (MS FCS, UI), 2021-2023
Beatrice Caffè (MS, WSU), 2020-2022
Victoria Wilks (MS FCS, UI), 2021-2022
Laurel Nunez (MS FCS, UI), 2020-2022
Kendi Phelps (MS FCS, UI), 2020-2022
Sachin Sharma (MS AVFS, UI), 2018-2021
Alba Boix Amorós (PhD, Biotechnology, Polytechnique University of Valencia), 2019 (external reviewer)
Sarah Reyes (PhD, Human Nutrition, Cornell University), 2014-2019
Sarah Brooker (PhD, UI), 2013-2019
Shima Bibi (PhD, Food Science), 2014-2017
Keri Ferolito (MS, Zoology), 2015-2017
Janet Williams (PhD, UI), 2012-2016
Joy Erlenbach (MS, SBS), 2011-2014

Katherine Hunt (PhD, UI), 2008-2012
Shannon Shields (MS, UI), 2009-2010
Travis Hanson (PhD, UI), 2002-2009
Julie Kelsey (PhD, UI), 2003-2008
Samuel Mosley (PhD, UI), 2003-2008
Erin Mosley (PhD, UI), 2002-2008
Tracy Ryan-Borchers (PhD, FSHN), 2002-2005
Gladys Tom (MS, FSHN), 2002-2003
Carla Marks (MS, Anim. Sci.), 1999-2001
Kathryn Good (MS, FSHN), 1999-2001
Elizabeth Soll (PhD, FSHN), 1998-2001
Srikant Viswanadha (MS, UI), 1998-2000
Heather Newberry (MS, FSHN), 1998-2000
H. Sara Memom (PhD, FSHN), 1997-1999
Heather Knox (PhD, FSHN), 1996-1998

Postdoctoral Fellows and Others Advised and Mentored

Dr. Irma Castro-Navarro, 2022-present (postdoc)
Dr. Ryan Pace, 2019-2023 (postdoc)
Elana King-Nakaoka, 2022-2023 (WWAMI medical student, research internship)
Adam Morse, 2022-2023 (WWAMI medical student, research internship)
Kassie Bull, 2021-2022 (WWAMI medical student, research internship)
Dr. Bethaney Fehrenkamp, 2019-2022 (postdoc)
Dr. Kimberly Lackey, 2018-2020 (postdoc)
Dr. Mohammed Shahin Alam, 2005-2007 (postdoc)

Undergraduate Honors Projects - Major Advisor

Cameron Miskho, 2012-2014 (Pass with Distinction, SBS)
Jennifer Larson, 2004-2006 (Pass with Distinction, FSHN)
Lisa Nicole Harrison, 2001-2003 (Pass with Distinction, FSHN)

SERVICE

Major Committee Assignments

School

Margaret Ritchie School of Family and Consumer Sciences 120th Anniversary Celebration Committee, member (2022)
Collegiate FCCLA, faculty advisor (2020-2023)

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FCS By-Laws Revision Committee, chair (2018-2021)

Graduate Program Committee (UI), chair and Graduate Program Director (2018-2019), member (2018-present)

Graduate Program Committee (WSU), member (2017-2018)

Communications Committee (WSU), chair (2015-2018)

Search Committee (SBS Clinical Assistant Professor), chair (2015)

Graduate Student Advisory Committee (SBS), member (2010-2013)

Search Committee (SBS environmental physiology position), member (2011)

Graduate Affairs Committee (FSHN) (2003-2006, chair, 2005-2006)

Nutrition and Exercise Sciences Review Committee (FSHN) (2003-2004)

Nutrition Graduate Curriculum Review Committee (FSHN) (chair, 2003-2004)

Nutritional Sciences Undergraduate Option Committee (FSHN) (chair, 2003-2004)

Safety Committee (FSHN) (2003-2005)

Graduate Curriculum Review Committee (FSHN) (chair, 2002-2003)

Space Committee (FSHN) (2002-2004)

Scholarships and Awards Committee (FSHN) (1998-2007, chair, 2005-2007)

University and College

Excellence in Research and Creative Scholarship selection committee, member (2024-present)

University Distinguished Professor selection committee, member (2024-present)

University of Phoenix Working Group, member (2023-present)

Faculty Senate *Ad Hoc* Curriculum Vitae Revision Committee, co-chair (2023-present)

Dept. Animal, Veterinary, and Food Sciences food biochemists search committee, member (2021)

CALS *Ad Hoc* Promotion and Tenure Guidelines Revision Committee, co-chair (2019)

Dept. Animal and Veterinary Sciences Department Head search committee, member (2018-2019)

120-Day Resilience and Health Disparities (CAS), member of core implementation group (2015-2018)

120-Day Nutritional Genomics (COM/CAHNR/CAS/SGAH), member of core implementation group (2015-2018)

Strategic Planning Committee (College of Arts and Sciences), member (2012-2018)

ADVANCE Grant (NSF) Advisory Committee, member (2012-2018)

American Association of University Professors, WSU chapter, member (2009-2018)

120-Day Study (Provost's Office and Office of VP for Research), Research Themes Committee, member and author (2014-2015)

Research and Arts Committee (Faculty Senate Committee), member (2012-2015)

Washington State University Sahlin Award for Excellence in Research, selection committee (2005-2007)

Halver Nutrition Lecture Series Committee (2003-2005, chair, 2005)

Washington State University Work/Life Task Force, founding member (2001-2006)

Washington State University Commission on the Status of Women (presidential committee), appointed member (2000-2005)

Shared Course Faculty for Freshman Seminars, 1998-2000

Professional and Scholarly Organizations, Membership and Service

National Academies of Sciences, Engineering, and Medicine, member (2022-present)

- National Academy of Medicine Interest Group 12, co-chair. (2024)
- Review of Evidence on Alcohol and Health, committee member. (2023-present)
- National Academy of Medicine Interest Group 12, 2023 annual meeting symposium, co-chair. (2023)
- Scanning for New Evidence on the Nutrient Content of Human Milk, committee member (2019-2020)

Medical University of Warsaw (Poland), Development of a Breastfeeding Pharmacovigilance Tool, expert member (2023-present)

International Milk and Lactation Consortium (MiLC), Bill and Melinda Gates Foundation, member of External Advisory Board (2020-present)

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- United Nations Institute for Training and Research (UNITAR) – Breastfeeding and Global Education Initiative, expert committee member (2021-2023)
- National Institutes of Health: Breastmilk Ecology – Genesis of Infant Nutrition (BEGIN) Project, chair of working group 2 focused on human milk composition (2020-2022)
- Idaho Family, Career and Community Leaders of America (FCCLA), board of directors and member of the executive committee (2020-2023)
- World Health Organization Maternal, Neonatal, Child, and Adolescent Health COVID-19 Research Network, Research Priority Team (2020-2021)
- World Health Organization Maternal, Neonatal, Child, and Adolescent Health COVID-19 Research Network, member (2020-2021)
- Association of Nutrition Departments and Programs, member (2018-present)
- Executive Board, member (2020-present)
 - Treasurer (2020-present)
- American Association of Family and Consumer Sciences, member (2019-present)
- Federal Human Milk Composition Database Project. Expert member and lead of academic partners. (2017-2019)
- FASEB Science Research Conference (SRC) on Origins and Benefits of Biologically Active Components of Human Milk, Co-Organizer with Lars Bode; Big Sky, Montana (July, 2015); see <http://www.faseb.org/Science-Research-Conferences.aspx> for details.
- National Institutes of Health “B-24 Project,” invited expert involved in development of dietary guidance for infants (birth to 24 mo of age) for the 2020 Dietary Guidelines for Americans (2013)
- Northwest Science Writers Association, member (2013-2018)
- Dannon Leadership Institute Nutrition Leadership Institute (NLI), executive faculty trainer (2008-2018)
- American Society for Nutrition, member (1987-present)
- Society Awards, jury member (2023)
 - Graduate Student Awards Competition, jury member (2015)
 - Nutritional Sciences Council, Executive Committee member (2014-2016)
 - Society Awards, jury member (2012)
 - Public Information Committee, member (2010-2013)
 - History of Nutrition Committee, member (2010-2013)
 - National Spokesperson (2008-2017)
 - Reviews, Papers, and Guidelines Committee, inaugural chair (2008-2010), member (2010-2012)
 - Proctor and Gamble Student Awards Committee, chair (2008-2009)
 - Executive Board (2006-2008)
 - Director of the Research Interest Sections (2006-2008)
 - Symposia Advisory Committee, member (2006-2008)
 - Scientific Program Committee, member (2003-2009)
 - Public Information Committee, member (2007-2008)
 - Awards Advisory Committee, inaugural chair (2007-2008)
 - Graduate Nutrition Education Committee, member (2003-2005)
 - Human Milk and Lactation Research Interest Section, chair (2003-2005)
 - Nutrition Notes, Western Section editor (1998-2007)
 - Annual meeting symposium, organizer and chair (1999, 2006, 2008)
 - Annual meeting oral session, organizer and chair (1998, 2003, 2007, 2009, 2010)
- International Society for Research in Human Milk and Lactation, member (1987-present)
- 2024 International Conference Scientific Organizing Committee (2023-present)
 - Social Media *Ad Hoc* Committee, member (2018-2019)
 - By-laws Revision *Ad Hoc* Committee, chair (2018)
 - Secretary/treasurer (2009-2018)

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- Executive Committee, member (2003-2005; 2009-2018)
- Director of Scientific Meetings (2003-2005)

Washington State University/University of Idaho Center for Reproduction, member, 1999-2018

PROFESSIONAL DEVELOPMENT

Scholarship

Summer, 2018 Biology of Vector-Borne Diseases (week-long course), University of Idaho
Fall, 2017 Washington State University I-Corps Program, funded by The National Science Foundation
Spring, 2017 Medical Officers Training Course in Leprosy, Anandaban Hospital, Lalipur, Nepal
2013-2014 Department of Animal Nutrition and Management, Swedish Agriculture University (SLU), Uppsala, Sweden (sabbatic)
2006-2007 Department of Microbiology, Molecular Biology, and Biochemistry, University of Idaho (sabbatic)

Leadership/Administration/Management

2023 Academic Impressions, Mediation Training for Department Chairs (½ day training)
2022 Academic Impressions, Strategic Financial Management for Department Chairs (2-day training)
2021 Conflict Management Training, University of Idaho Ombuds (4-week training)
2020 Academic Impressions, Women's Leadership Success in Higher Ed, scheduled to be in Seattle, WA but occurred virtually due to COVID-19 (3-day training)
2019 Center for Creative Leadership, Leadership Development Program, Colorado Springs, CO (week-long training)
2016-2017 Provost's Leadership Academy, Washington State University, Pullman, WA (year-long training)
2010 Dannon Institute® Mid-Career Nutrition Leadership Institute (week-long training)
1999 Dannon Institute® Nutrition Leadership Institute (week-long training)