

**UNIVERSITY OF IDAHO  
CURRICULUM VITAE**

**NAME:** Michelle (Shelley) McGuire, PhD

**DATE:** 3/22/23

**RANK OR TITLE:** Director and Professor

**DEPARTMENT:** Margaret Ritchie School of Family and Consumer Sciences

**OFFICE LOCATION:** Mary Hall Niccolls Building 105B

**CAMPUS ZIP:** 3183

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**DATE OF FIRST EMPLOYMENT AT UI:** 8/13/2018

**DATES OF TENURE:** 2004 (Washington State University); 2018 (University of Idaho)

**DATES OF PRESENT RANK OR TITLE:** 2016 (Professor)/2018 (Director)

**EDUCATION**

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

MS, University of Illinois, 1988 (nutritional sciences)

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

**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, Washington State University (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**

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

Pacific Northwest National Laboratory Microbiomes in Transition (MINT) 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

MCGUIRE, Michelle (Shelley)

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.

## TEACHING ACCOMPLISHMENTS

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

### Courses Taught

Introduction to Nutritional Sciences; 40+ semesters; > 10,000 students

Science Communications; 10 semesters; > 300 students

Advanced Readings in Nutrition; 10 semesters; > 100 students

Lifecycle Nutrition; 3 semesters; >100 students

### Students Advised

#### *Graduate Major Advisor – Current*

Cassandra Partridge (PhD Animal Physiology, AVFS, UI), 2021-present

Alex Gogel (MS, FCS, UI), 2018-present

Sarah Boothman (PhD Zoology, SBS, WSU), 2016-present

#### *Graduate Major Advisor – 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*

Katie Heckathorne (MS FCS, UI), 2021-present

Haley Peterson (PhD AVS, UI), 2018-present

Beatrice Caffè (PhD, WSU), 2022-present

#### *Graduate Committee Member – Completed*

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

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H. Sara Memom (PhD, FSHN), 1997-1999

Heather Knox (PhD, FSHN), 1996-1998

*Postdoctoral Fellows and Others Advised and Mentored*

Irma Castro-Navarro, 2022-present (postdoc)

Elana King-Nakaoka, 2022-present (WWAMI medical student, research internship)

Adam Morse, 2022-present (WWAMI medical student, research internship)

Kassie Bull, 2021-2022 (WWAMI medical student, research internship)

Dr. Bethaney Fehrenkamp, 2019-2022 (postdoc)

Dr. Ryan Pace, 2019-present (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)

**Honors and Awards**

Phi Beta Kappa Honorary (Univ. of Illinois chapter; 1986)

International Life Sciences Institute Future Leader Award (2000)

International Society for Research in Human Milk and Lactation Ehrlich-Koldovsky Award (emerging investigator) (2002)

Washington State University College of Arts and Sciences Thomas E. Lutz Teaching Excellence Award (2016)

American Society for Nutrition Excellence in Nutrition Education Award (2018)

University of Idaho College of Agricultural and Life Sciences R.C. Heimsch Research Award (2022)

Idaho Breastfeeding Coalition Excellence in Breastfeeding Leadership Award (2022)

National Academy of Medicine, elected member (2022)

University of Idaho Excellence in Research and Creative Activity Award (2023)

**SCHOLARSHIP ACCOMPLISHMENTS**

**h-Index: 48**

**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

*Peer-reviewed: in preparation*

Luzan P, Pasko S, Komarova A, **McGuire MK**, Kokina M, Parr C, Chen J, Petrou L, Cheung K, Mursalova A, El-Taravi Y, Peshko D, Simpson M, Pedersen SA, Azad M, Jarvinen-Seppo K, Peroni D, Verhasselt V, Boyle R, Warner J, Munblit D. Breast milk immunological composition: a systematic review. Part I: Methodology and immune active molecule concentrations. (2,6)

Pasko S, Luzan P, Komarova A, **McGuire MK**, Kokina M, Parr C, Chen J, Petrou L, Cheung K, Mursalova A, El-Taravi Y, Peshko D, Simpson M, Pedersen SA, Azad M, Jarvinen-Seppo K, Peroni D, Verhasselt V, Boyle R, Warner J, Munblit D. Breast milk immunological composition: a systematic review. Part II: Maternal and environmental factors influencing immune active molecules concentration in human breast milk. (2,6)

Pasko S, Luzan P, Komarova A, **McGuire MK**, Kokina M, Parr C, Chen J, Petrou L, Cheung K, Mursalova A, El-Taravi Y, Peshko D, Simpson M, Pedersen SA, Azad M, Jarvinen-Seppo K, Peroni D, Verhasselt V, Boyle R, Warner J, Munblit D. Breast milk immunological composition: a systematic review. Part III: Human breast milk immune active molecules concentration and infant health. (2,6)

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)
- Lackey KA, Williams JE, Sharma R, Williams DL, Meehan C, McGuire MA, Hagge DX, **McGuire MK**. Preliminary examination of milk produced by leprosy-infected and leprosy-uninfected women in Nepal; does it contain DNA from *Mycobacterium leprae*? (1,2,3,4,6)
- Reyes SM, Allen DL, Williams JE, McGuire MA, **McGuire MK**, Hay AG, Rasmussen KM. Independent and interactive effects of pumping and cold storage regimens on bacterial content and composition of human milk: A randomized clinical trial. (2,3,6)
- 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, Caffè B, Williams JE, McGuire MA, **McGuire MK**. Infant-to-mother microbial transfer during breastfeeding. (2,3)
- Smith CB, Schmidt J, Caffè B, Holdsworth EA, Brooks O, Williams JE, Gang DR, McGuire MA, **McGuire MK**, Barbosa-Leiker C, Meehan CL. Cannabis use during lactation: A mixed-methods investigation of decision-making and perceptions of risk among women who frequently use cannabis. (2,3,4,6)

*Peer-reviewed: in review*

- Holdsworth EA, Williams JE, Pace RM, Lane AA, Gartstein M, McGuire MA, McGuire MK, Meehan CL. Breastfeeding patterns are associated with human milk microbiome composition: the MIMBES study. Manuscript in review with PLOS One. (2,3,6)
- Caffè 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. Variation in human milk immune factors by maternal nutritional status and infant sex: The INSPIRE Study. Manuscript in review with Am J Hum Biol. (3,6)

*Peer-reviewed: in press or published*

1. 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, in press. (3,4)
2. 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, in press. (1,6)
3. 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)
4. 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)
5. 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)
6. 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)
7. 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)
8. 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/PJG9.0000000000000237 (6)
  9. 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)
  10. 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)
  11. **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)
  12. 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)
  13. 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)
  14. 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)
  15. 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, Neibergs 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)
  16. 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)
  17. **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)
  18. 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)
  19. **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)
  20. **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)
  21. 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)
22. 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)
  23. 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)
  24. 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](https://doi.org/10.1093/cdn/nzaa027). (1,6)
  25. 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)
  26. 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)
  27. 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)
  28. **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)
  29. 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)
  30. 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)
  31. 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)
  32. 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)
  33. 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)
  34. 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)
  35. 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)
  36. 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)
  37. 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)
38. **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)
39. **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)
40. **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)
41. 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)
42. **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)
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*Book Chapters/Proceedings/Outreach*

- O'Reilly S, **McGuire MK**. Pregnancy and lactation. In: *Nutrition and Metabolism*. 3<sup>rd</sup> edition. Lanham-New S, Macdonald I, and Roche H, eds. Wiley-Blackwell, London, UK. Anticipated publication date for this book is 2023.
- 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 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 MK** (2023) Serendipity, curiosity, and the human milk microbiome. University of Nebraska (invited seminar speaker). Lincoln, NE. March, 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) 120<sup>th</sup> 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 entitle “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*

- 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. To be 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. To be 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, 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. JCarmel, 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, Caffè 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).
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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**

### *Submitted and/or Pending*

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, 2024 – January 14, 2029. \$11,928,535.

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.

### *Awarded*

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. \$13,500. Aug. 2022-July 2023.

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. \$10,000. Aug. 2022-July 2023.

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. Aug. 2021-July 2023. \$25,000.

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.

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.

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. \$30,000. Sept. 2020-Aug. 2021.

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.

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.

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.

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.

NIH/USDA, "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.

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. \$298,980. July 1, 2018-June 20, 2020.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- WSU Nutritional Genomics Grand Challenges Seed Grant. "Nutritional genomics of human milk – relating variation in host genomics to milk composition." PI: Michelle McGuire. Co-Is: Courtney Meehan, Mark McGuire. May, 2017-April, 2019. \$80,000.
- 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. \$10,000. April 30, 2017-December 31, 2017.
- 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.
- 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.
- 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.
- 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.
- Edward R. Meyer Award (WSU), "Examining the evidence and dogma related to leprosy and breastfeeding." PI: Michelle McGuire. November, 2015-March, 2017. \$5,000.
- 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.
- Monsanto Company (unrestricted research grant), "Support for research in human milk and lactation." PI: Michelle McGuire. \$10,000. November, 2014-October, 2015.
- 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.
- 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.
- 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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. \$25,000, Aug. 1, 1998-Dec. 31, 2000.
- 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 Leudecke, Mark McGuire, Kristin Ritzenthaler. Dec. 1999-Nov., 2000, \$28,298.
- 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. \$6,000, July 1, 1999-June 30, 2000.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- National Institutes of Health Grant HD28663, "Regulation of postpartum fecundity by nutrition and suckling in the laboratory rat." PI: Kathleen Rasmussen. Co-PI: Michelle McGuire. 1994-1996, \$287,000.

## **SERVICE**

### **Major Committee Assignments**

#### *University and College*

- Faculty Senate *Ad Hoc* Curriculum Vitae Revision Committee, co-chair (2023)
- CALS *Ad Hoc* Promotion and Tenure Guidelines Revision Committee, co-chair (2021)
- 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/CAHNRS/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

*Departmental/School*

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

**Professional and Scholarly Organizations**

Medical University of Warsaw (Poland), Development of a Breastfeeding Pharmacovigilance Tool, expert member (2023-present)  
United Nations Institute for Training and Research (UNITAR) – Breastfeeding and Global Education Initiative, expert committee member (2021-present)  
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-present)  
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)  
National Academy of Sciences Committee on Scanning for New Evidence on the Nutrient Content of Human Milk, member (2019-2020)  
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)
- Social Media *Ad Hoc* Committee, member (2018-2019)
  - By-laws Revision *Ad Hoc* Committee, chair (2018)
  - Secretary/treasurer (2009-2018)
  - 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 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)