

# CURRICULUM VITAE

University of Idaho

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

**DATE:** 1/16/20

**RANK OR TITLE:** Director and Professor

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

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

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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
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

Pacific Northwest National Laboratory Microbiomes in Transition (MINT) External Advisory Board. 2018-present.

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

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.

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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 (last 5 years)

Spring, 2014	Biol 140 (Introduction to Nutritional Sciences); 2 sections; 600 students
Fall, 2014	Biol 140 (Introduction to Nutritional Sciences); 254 students Biol 589 (Advanced Readings in Nutrition); 12 students
Fall, 2015	Biol 140 (Introduction to Nutritional Sciences); 245 students
Spring, 2016	Biol 393 (Science Communications); 20 students
Summer, 2016	Biol 140 (Introduction to Nutritional Sciences); 17 students
Fall, 2016	Biol 140 (Introduction to Nutritional Sciences); 260 students
Spring, 2017	Biol 598 (Advanced Readings in Nutrition); 5 students
Fall, 2017	Biol 140 (Introduction to Nutritional Sciences); 250 students
Spring, 2018	Biol 393 (Science Communications, on-line); 25 students
Fall, 2018	FCS 501 (Graduate Seminar); 12 students, cotaught
Fall, 2019	FCS 501 (Graduate Seminar); 6 students, cotaught

### Students Advised

#### *Graduate Major Advisor – Current*

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 (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*

Sachin Sharma (MS AVS, UI), 2019-present

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

#### *Graduate Committee Member – Completed*

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

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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 Advised*

Bethaney Fehrenkamp, 2019-present  
Ryan Pace, 2019-present  
Kimberly Lackey, 2018-present  
Mohammed Shahin Alam, 2005-2007

*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**

Excellence in Nutrition Education Award, American Society for Nutrition (2018)  
Thomas E. Lutz Teaching Excellence Award, WSU College of Arts and Sciences (2016)

**SCHOLARSHIP ACCOMPLISHMENTS**

**Publications**

*Peer-reviewed articles, in preparation*

- Reyes SM, Allen DL, Williams JE, McGuire MA, **McGuire MK**, Hay AG, Rasmussen KM. Pumping practices alter human milk microbiome: a randomized clinical trial.
- 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.
- 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.
- 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.
- \*Pace R, Meehan CL, McGuire MA, Foster J, Sellen DW, Kamau-Mbuthia EW, Kamundia EW, Mbugua S, Moore SE, Prentice AM, Kvist LJ, Otoo GE, Ruíz L, Rodríguez JM, Pareja RG, Bode L, Robertson, B, Neibergs H, Kiser J, Williams JE, **McGuire MK**. Variation in human milk oligosaccharides, protein, and lactose are related to variation in milk and infant stool microbiota.
- Murdoch B, **McGuire MK**, Meehan CL, McGuire MA, Foster J, Sellen DW, Kamau-Mbuthia EW, Kamundia EW, Mbugua S, Moore SE, Prentice AM, Kvist LJ, Otoo GE, Ruíz L, Rodríguez JM, Pareja RG, Bode L, Robertson, B, Neibergs H, Kiser J, Williams JE. The INSPIRE Study: Genome-wide association analysis of human milk oligosaccharide variation.
- \*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, Berman KA, Price WJ, Paskowski J, Meehan CL, **McGuire MK**. Relating maternal dietary patterns to variation in milk microbiome: The INSPIRE Study.
- \*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*?

\***McGuire MK**, Randall AZ, Seppo A, Jarvinen-Seppo K, Meehan CM, Gindola D, Williams JE, Sellen DW, Kamau-Mbuthia E, Mbugua S, Moore SE, Prentice AM, Kvist LJ, Ootoo GE, Rodriguez JM, Pareja RG, Bode L, McGuire MA, Campo JJ. Specificity and reactivity of IgA and IgG to selected pathogen-associated antigens in milk produced by women living in diverse geographical locations: The INSPIRE Study.

Azad M, Bode L, Brockway M, Brown A, Chambers T, Goldhammer C, Hinde K, **McGuire MK**, Munblit D, Patel A, Perez-Escamilla R, Rasmussen K, Shenker N, Young B, Zuccolo L. Breastfeeding and the Origins of Health – Interdisciplinary Perspectives and Priorities: Workshop Proceedings.

*Peer-reviewed articles, in review*

1 – corresponding (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 articles, in press or published*

1. 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)
2. Heimburger 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. *community. Nutr Today*, 2019;54(4):165Y169. (5,6)
3. 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)
4. 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)
5. 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)
6. 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)
7. 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)
8. 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)
9. 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)
10. 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)
11. 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)
12. **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, Ruiz L, Rodríguez JM, Pareja RG, Bode L. (2017) What's normal? Oligosaccharide concentrations and profiles in milk produced by healthy women vary geographically. *105 2017 May;105(5):1086-1100*. (1,2,3,4,6)
  13. **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)
  14. **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)
  15. 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)
  16. **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)
  17. **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)
  18. 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)
  19. **McGuire MK**, McGuire MA. (2015) Human milk: Mother Nature's prototypical probiotic food? *Adv Nutr*, 6:112-23. (1,6)
  20. 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)
  21. **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)
  22. **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)
  23. **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)
  24. **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)
  25. **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)
  26. **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)
  27. 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)
  28. 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)
  29. **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.
30. **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(5):585-6. (1,6)
  31. **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)
  32. **McGuire S.** (2014) Reports from the Agencies: Centers for Disease Control and Prevention. Strategies to Prevent Obesity and Other Chronic Diseases: The CDC Guide to Strategies to Support Breastfeeding Mothers and Babies. *Adv Nutr*, 5(3):291-2. (1,6)
  33. **McGuire S.** (2014) Reports from the Agencies: Institute of Medicine. 2013. Evaluating obesity prevention efforts: a plan for measuring progress. Washington, DC: The National Academies Press, 2013. *Adv Nutr*, 5(2):191-2. (1,6)
  34. **McGuire S.** (2014) Reports from the Agencies: Institute of Medicine. 2013. Sodium intake in populations: assessment of evidence. Washington, DC: The National Academies Press, 2013. *Adv Nutr*, 5(1):19-22. (1,6)
  35. **McGuire S.** (2013) Reports from the Agencies: State indicator report on fruits and vegetables, 2013, Centers for Disease Control and Prevention, Atlanta, GA. *Adv Nutr*, 4(6): 1–2. (1,6)
  36. **McGuire S.** (2013) Reports from the Agencies: Caloric intake from fast food among adults: United States, 2007-2010. Frayar DC, Ervin RB. NCHS data brief, no 114. Hyattsville, MD: National Center for Health Statistics, 2013. *Adv Nutr*, 3(5):708-9. (1,6)
  37. **McGuire S.** (2013) Reports from the Agencies: Supplemental Nutrition Assistance Program: Examining the evidence to define benefit adequacy. IOM (Institute of Medicine) and NRC (National Research Council). Washington, DC: The National Academies Press, 2013. *Adv Nutr*, 3(5):708-9. (1,6)
  38. **McGuire S.** (2013) Reports from the Agencies: Vital signs: Binge drinking among women and high school girls – United States, 2011. Centers for Disease Control and Prevention. *Morbidity and Mortality Weekly Report*; Vol. 62. *Adv Nut*, 4(3):313-4. (1,6)
  39. **McGuire S.** (2013) Reports from the Agencies: The State of Food Insecurity in the World 2012. Economic growth is necessary but not sufficient to accelerate reduction of hunger and malnutrition. Rome, FAO. WHO, World Food Programme, and International Fund for Agricultural Development. 2012. *Adv Nutr*, 4(1):126-7. (1,6)
  40. **McGuire S.** (2013) Reports from the Agencies: Global engagement. 2012. U.S. Food and Drug Administration. *Adv Nutr*, 4(2):265-6. (1,6)
  41. Ritzenthaler KL, Shahin AM, Shultz TD, Dasgupta N, McGuire MA, **McGuire MK.** (2012) Dietary intake of c9,t11-conjugated linoleic acid correlates with its concentration in plasma lipid fractions of men but not women. *J Nutr*, 142(9):1645-51. (1,2,3,4,6)
  42. Hunt K, Preuss J, Nissan C, Davlin C, Williams J, Shafii B, Richardson A, **McGuire M,** Bode L, McGuire M. (2012) Human milk oligosaccharides promote the growth of staphylococci. *Appl Environ Microbiol*, 78:4763-70. (2,4,6)
  43. Hunt KM, Williams JE, Shafii B, Hunt MK, Behre R, Ting R, **McGuire MK,** McGuire MA. (2012) Mastitis increases free fatty acids and markers of inflammation in human milk. *J Breastfeed Med*, May 2012, doi:10.1089/bfm.2011.0141.
  44. **McGuire S.** (2012) Reports from the Agencies: Institute of Medicine (IOM) Accelerating progress in obesity prevention: solving the weight of the nation. Washington, DC: The National Academies Press; 2012. *Adv Nutr*, 3(5):708-9. (1,6)
  45. **McGuire S.** (2012) Reports from the Agencies: Institute of Medicine (IOM) Front-of-package nutrition rating systems and symbols: promoting healthier choices. Washington, DC: The National Academies Press. *Adv Nutr*, 3(3):332-3. (1,6)
  46. **McGuire S.** (2012) Reports from the Agencies: Guideline: Vitamin A supplementation in pregnant women. Guideline: Vitamin A supplementation in postpartum women. Geneva, World Health Organization. *Adv Nutr*, 3:215-6. (1,6)
  47. **McGuire S.** (2012) Reports from the Agencies: Early childhood obesity prevention policies. Institute of Medicine. The National Academies Press. *Adv Nutr*, 3(1):56-7. (1,6)
  48. Hunt KM, Foster JA, Forney LJ, Schütte UME, Beck DL, **McGuire MK,** McGuire MA. (2011) Characterization of the diversity and temporal stability of bacterial communities in human milk. *PLoS ONE*, 6(6): e21313. (2,3,4,6)
  49. Nudda A, **McGuire MK,** Battacone G, Pulina G. (2011) Documentation of fatty acid profiles in lamb meat and lamb-based infant foods. *J Food Sci*, 76:H43-7. (6)

50. **McGuire S.** (2011) The Surgeon General's call to action to support breastfeeding. U.S. Department of Health and Human Services, Office of the Surgeon General. *Adv Nutr*, 2: 523-4. (1,6)
51. **McGuire S.** (2011) Reports from the Agencies: The impact of food away from home on adult diet quality. U.S. Department of Agriculture, Econ. Res. Serv. *Adv Nutr*, 2:442-3. (1,6)
52. **McGuire S.** (2011) Reports from the Agencies: Adult obesity prevalence in Canada and the United States. *Adv Nutr*, 2:367-9. (1,6)
53. **McGuire S.** (2011) Reports from the Agencies: Dietary Guidelines for Americans, 2010. U.S. Government Printing Office. *Adv Nutr*, 2:293-4. (1,6)
54. **McGuire S.** (2011) Reports from the Agencies. Household food security in the United States, 2009. U.S. Department of Agriculture, Econ. Res. Serv. *Adv Nutr*, 2:153-4. (1,6)
55. **McGuire S.** (2011) Reports from the Agencies. School meals: building blocks for healthy children. The National Academies Press. 2009. *Adv Nutr*, 2:64-5. (1,6)
56. **McGuire S.** (2010) Reports from the Agencies. Strategies to reduce sodium intake in the United States. The National Academies Press. *Adv Nutr*, 1:49-50. (1,6)
57. Picciano MF, **McGuire MK.** (2009) Use of dietary supplements by pregnant and lactating women in North America. *Am J Clin Nutr*, 89:663S-7S. (6)
58. Picciano, MF, Yetley, EA, Coates, PM, **McGuire, MK.** (2009) Update on folate and human health. (invited review) *Nutrition Today*, 44:142-152. (6)
59. Ryan-Borchers T, Park JS, Chew BP, Beerman KA, **McGuire MK.** (2008) Soy isoflavones do not influence thyroid function in healthy postmenopausal women. *Topics Clin Nutr*, 23:13-22. (2,3,6)
60. Hasin A, Griinari M, Shahin AM, Williams J, McGuire MA, **McGuire MK.** (2007) Consumption of c9,t11-18:2 or t10,c12-18:2 enriched dietary supplements does not influence milk macronutrients in healthy, lactating women. *Lipids*, 42(9):835-43. (1,2,3,4,6)
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#### *Monographs and Textbooks*

**McGuire MK & O'Connor D.** (in progress) *Human Milk: Collection, Analysis, and Variation in Macronutrients and other Macromolecules*. Elsevier Publishing. This is the first book in a planned series of 4 that will be related to human milk composition. Anticipated publication date for this first book in the series is 2020.



- 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*. Elsevier Publishing.
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*Book Chapters/Proceedings*

- 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.
- McGuire MK, McGuire MA.** (2017) Human milk microbes – summary and research gaps. In: *Prebiotics and probiotics in human milk*. Elsevier Publishing.
- McGuire MK, McGuire MA.** (2017) Isn't Milk Sterile? A Historical Perspective on Microbes in Milk. 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.

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

- \***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.
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- \***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*

- 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.
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## Patent

### *Pending*

Garment and method for measuring milk production and breastfeeding parameters.” Patent application #62513630 filed through WSU Office of Commercialization, June 1, 2018. Inventors: Arda Gozen, Michelle McGuire, Abhishek Gannarapu, Kimberly Lackey, Tyler Nelson, Dallas Daaren.

## Grants, Gifts, and Contracts

### *Submitted and/or Pending*

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.

ISF Incubator, “Determination of The Accuracy and Calibration Needs of Technology # 1791 – Intellibra.” CoPIs: Michelle McGuire and Arda Gozen, 2020, \$271,347.

*Awarded*

- 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.
- 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." CoPIs: Mark McGuire, Michelle McGuire. Collaborators: Lawrence Fox, Juan Miguel Rodriguez, Janet Williams, Tom Metz, Janet Jansson. Jan. 1, 2019-Dec. 31, 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." Co-PIs: Hans Kunz, 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." Co-PIs: Kerry Schulze (Johns Hopkins), 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-PIs: 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." CoPIs: 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." Michelle McGuire, 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." Michelle McGuire, Courtney Meehan, Mark McGuire. May, 2017-April, 2019. \$80,000.
- Medela. "Childcare choices, microbiomes, and infant behavior – are they related?" co-PIs: Michelle McGuire, Courtney Meehan. April, 2017. \$23,500 (in kind).
- International Society for Research in Human Milk and Lactation, "Breastfeeding, Lactation, and International Public Policy." CoPIs: 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?" CoPIs: 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?" CoPIs: 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." Roll, Duncan, McGuire, Palmer, Murphy. July 1, 2016-June 30, 2021. \$2,491,430.
- WSU Grand Challenge Seed Grant Completion. "Developmental origins of health and disease: Identifying potential mechanisms for intergenerational transmission of risk and resilience." 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 (University of Idaho) 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 (University of Idaho) 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 (University of Idaho) Co-PI: Michelle McGuire, July 1, 2002-June 30, 2003, \$30,000.

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- 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 (University of Idaho) 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 (University of Idaho) 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 (University of Idaho) 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 (University of Idaho) 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 (University of Idaho) 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. May1, 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 (University of Idaho) Co-PI: Michelle McGuire. July1, 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 (Cornell University) Co-PI: Michelle McGuire. 1994-1996, \$287,000.

*Not Awarded*

- 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 (IHMP): 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 Konkell, 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.
- 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.

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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.

### **Honors and Awards**

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

Thomas E. Lutz Teaching Excellence Award, WSU College of Arts and Sciences (2016)

Ehrlich-Koldovsky Award, given by the International Society for Research in Human Milk and Lactation to "recognize a young investigator who has begun to make outstanding, original scientific contributions to the study of human milk and lactation" (2002)

Future Leader Award, International Life Sciences Institute (2000)

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

### **SERVICE**

#### **Major Committee Assignments**

##### *University and College*

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*

By-Laws Revision Committee, chair (2018-present)

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)

MCGUIRE, Michelle (Shelley)

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**

National Academy of Sciences Committee on Scanning for New Evidence on the Nutrient Content of Human Milk, member (2019-present)

Association of Nutrition Departments and Programs, member (2018-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-present)

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)

- 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, member (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-present

### **PROFESSIONAL DEVELOPMENT**

#### **Scholarship**

Summer, 2018    Biology of Vector-Borne Diseases (week-long course), University of Idaho

MCGUIRE, Michelle (Shelley)

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  
Fall, 2013 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)

**Administration/Management**

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)