

## Jenifer Monks, Ph.D.

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Last updated: June 27, 2024

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### Current Position

Assistant Professor  
Division of Reproductive Sciences  
Department of Obstetrics and Gynecology  
University of Colorado Anschutz Medical Campus  
Aurora, Colorado

### Education

**Postdoctoral Fellowship** 2006-2009

Division of Reproductive Sciences,  
Department of Obstetrics & Gynecology,  
University of Colorado Anschutz Medical Campus, Aurora, Colorado

**Postdoctoral Fellowship** 2000-2004

Division of Cell Biology,  
Department of Pediatrics,  
National Jewish Medical Center, Denver, Colorado

**Ph.D. in Cell & Developmental Biology** 1991-1999

University of Colorado Health Sciences Center, Denver, Colorado

**B.S. in General Chemistry** (Dean's List 1990, 1991) 1987-1991

Harvey Mudd College, Claremont, California

### Professional Positions and Experience

#### Academic Appointments

**Assistant Professor**, Division of Reproductive Sciences, Department of Obstetrics and Gynecology, University of Colorado Anschutz Medical Campus, Aurora, Colorado 2018 – present

**Instructor**, Division of Reproductive Sciences, Department of Obstetrics and Gynecology, University of Colorado Anschutz Medical Campus, Aurora, Colorado 2009 – 2018

## **Professional Development**

### **Women's Leadership Training**

University of Colorado School of Medicine  
Aurora, Colorado

2022 – 2023

### **American Stereology**

7<sup>th</sup> International Society for Stereology & Image  
Analysis Conference  
La Jolla, California

April 2003

### **Optical Microscopy and Imaging in the Biomedical Sciences**

Director: Dr. Colin S. Izzard  
Marine Biological Laboratory, Woods Hole,  
Massachusetts

July 2001

### **Cryo-Microscopy**

Sponsor: Leica  
Denver, Colorado

October 2001

## **Professional Memberships and Activities**

American Society for Cell Biology (ASCB)  
American Academy for the Advancement of  
Science (AAAS)  
Association of Women in Science (AWIS)

1991 – present

2012 – present

2012 – present

## **Editorial Board Appointments**

*Journal of Mammary Gland Biology & Neoplasia*

2023 – present

## **Committee Assignments and Administrative Services**

### Ad hoc grant reviewer

NIH, NICDH, ICER study section

June 2019

### Ad hoc manuscript reviewer

*Journal of Dairy Research*  
*Reproduction and Breeding*  
*Journal of Mammary Gland Biology & Neoplasia*  
*Physiological Genomics*  
*iScience*  
*Nutrients*  
*Maternal & Child Nutrition*

2018, 2022, 2024

2024

2023, 2024

2023

2023

2019, 2020, 2022

2020

## **Educational Activities**

### **Graduate School teaching**

"Mammary gland development, differentiation, and lactation" (lecture)  
Integrated Physiology program Spring Repro Bio course (IPHY7800)

2021-2024

### **Medical School teaching**

"Breast Development & Physiology" (lecture)  
Life Cycle Block

Feb, 2021

Nov 2021

Jun 2022

*“Fluorescence Microscopy Lab: Immunohistochemistry”* (lecture and lab) **2013-2016**  
Practical Application of Molecular and Cell Biology Techniques for the Clinical Investigator (CLSC 7500)

### **Graduate Student Committees**

*Evelyn Llerena-Cari, PhD* awarded July 14, 2022 (committee member) **2018-2022**  
Board of Directors of the Colorado Fertility Advocates  
Vice President of Colorado Association of Reproductive Technologists  
Embryologist at Shady Grove Fertility, Denver, CO.

*Karli Swenson, PhD* awarded Sept. 18, 2023 (committee chair) **2019-2023**  
Program assistant, Colorado Perinatal Care Quality Collaborative  
Postdoctoral fellow at Children's Hospital Colorado, eXtraordinary Kids Clinic.

### **Honors and Awards**

**Florence Myers Goldhamer Fellowship in Pediatric Allergy & Immunology** **2001**  
National Jewish Medical Center

**Dean's List** **1990-1991**  
Harvey Mudd College

**National Merit Scholar** **1987**  
National Merit Scholarship Corporation

### **Grants and Contract Awards**

#### **Pending**

**NIH 1R01HD117769-01** (Monks PI)  
04/01/2025-03/31/2030

**Project Title:** Investigating the Role of Lipid Droplet Docking in Lactation Initiation and Milk Secretion  
Total Award Amount: \$3,848,802  
Total Direct Costs: \$2,499,994  
Total Indirect Costs \$1,348,808

#### **Past**

**NIH R01 HD093729-01A1** (McManaman; Monks (Co-PI))  
09/01/2018 – 05/31/2023

No Cost Extension- 05/31/2024

**Project Title:** Molecular Determinants of Lactation Success

This project uses novel transgenic mouse models to investigate the molecular mechanisms that regulate milk lipid secretion and lactation success.

Role: Co-PI

Total Award Amount: \$1,923,760

Total Direct Costs: \$1,240,000

Total Indirect Costs: \$683,760

**NIH R21 HD096228** (Frank & Lanasp MPI)

04/01/2019-03/31/2022

**Project Title:** Contributions of perinatal sugar exposure to childhood metabolic syndrome

Goal: To characterize the role of sugar and fructokinase on pregnancy and perinatal metabolic syndrome.

Role: Co-investigator

Percent Effort: 8%

Total Award Amount: \$427,625

Total Direct Costs: \$275,000

Total Indirect Costs: \$152,625

## Publications

### Peer-reviewed publications

1. Martin Carli JF, Dzieciatkowska M, Hernandez TL, **Monks J\***, McManaman JL\*. Comparative proteomic analysis of human milk fat globules and paired membranes and mouse milk fat globules identifies core cellular systems contributing to mammary lipid trafficking and secretion. *Front Mol Biosci.* 2023;10:1259047. doi: 10.3389/fmolb.2023.1259047. eCollection 2023. PubMed PMID: 38169886; PubMed Central PMCID: PMC10759240. \*Contributed equally
2. Fini MA, **Monks JA**, Li M, Gerasimovskaya E, Paucek P, Wang K, Frid MG, Pugliese SC, Bratton D, Yu YR, Irwin D, Karin M, Wright RM, Stenmark KR. Macrophage Xanthine Oxidoreductase Links LPS Induced Lung Inflammatory Injury to NLRP3 Inflammasome Expression and Mitochondrial Respiration. *bioRxiv.* 2023 Jul 21;. doi: 10.1101/2023.07.21.550055. PubMed PMID: 37502951; PubMed Central PMCID: PMC10370167.
3. **Monks J**, Orlicky DJ, Libby AE, Dzieciatkowska M, Ladinsky MS, McManaman J. Perilipin-2 promotes lipid droplet-plasma membrane interactions that facilitate apocrine lipid secretion in secretory epithelial cells of the mouse mammary gland. *Frontiers in Cell and Developmental Biology-Membrane Traffic.* 2022.10:958566. doi: 10.3389/fcell.2022.958566. PMID: 36158190; PubMed Central PMCID: PMC9500548.
4. Martin Carli JF, Trahan GD, Jones KL, Hirsch N, Rolloff KP, Dunn EZ, Friedman JE, Barbour LA, Hernandez TL, MacLean PS, **Monks J**, McManaman JL, Rudolph MC. Single Cell RNA Sequencing of Human Milk-Derived Cells Reveals Sub-Populations of Mammary Epithelial Cells with Molecular Signatures of Progenitor and Mature States: a Novel, Non-invasive Framework for Investigating Human Lactation Physiology. *J Mammary Gland Biol Neoplasia.* 2020 Dec;25(4):367-387. doi: 10.1007/s10911-020-09466-z. PubMed PMID: 33216249; PubMed Central PMCID: PMC8016415.
5. **Monks J**, Ladinsky MS, McManaman JL. Organellar Contacts of Milk Lipid Droplets. *Contact (Thousand Oaks).* 2020 Jan-Dec;3. doi: 10.1177/2515256419897226. Epub 2020 Jan 23. PubMed PMID: 32232194; PubMed Central PMCID: PMC7105144.
6. Orlicky DJ, Libby AE, Bales ES, McMahan RH, **Monks J**, La Rosa FG, McManaman JL. Perilipin-2 promotes obesity and progressive fatty liver disease in mice through mechanistically distinct hepatocyte and extra-hepatocyte actions. *J Physiol.* 2019 Mar;597(6):1565-1584. doi: 10.1113/JP277140. Epub 2019 Jan 2. PubMed PMID: 30536914; PubMed Central PMCID: PMC6418763.
7. Libby AE, Bales ES, **Monks J**, Orlicky DJ, McManaman JL. Perilipin-2 deletion promotes carbohydrate-mediated browning of white adipose tissue at ambient temperature. *J Lipid Res.* 2018 Aug;59(8):1482-1500. doi: 10.1194/jlr.M086249. Epub 2018 Jun 4. PubMed PMID: 29866659; PubMed Central PMCID: PMC6071773.
8. **Monks J**, Orlicky DJ, Stefanski AL, Libby AE, Bales ES, Rudolph MC, Johnson GC, Sherk VD, Jackman MR, Williamson K, Carlson NE, MacLean PS, McManaman JL. Maternal obesity during lactation may protect offspring from high fat diet-induced metabolic dysfunction. *Nutr Diabetes.* 2018 Apr 25;8(1):18. doi: 10.1038/s41387-018-0027-z. PubMed PMID: 29695710; PubMed Central PMCID: PMC5916951.
9. Hazegh KE, Nemkov T, D'Alessandro A, Diller JD, **Monks J**, McManaman JL, Jones KL, Hansen KC, Reis T. An autonomous metabolic role for Spen. *PLoS Genet.* 2017 Jun;13(6):e1006859. doi: 10.1371/journal.pgen.1006859. eCollection 2017 Jun. PubMed PMID: 28640815; PubMed Central PMCID: PMC5501677.
10. **Monks J**, Dzieciatkowska M, Bales ES, Orlicky DJ, Wright RM, McManaman JL. Xanthine oxidoreductase mediates membrane docking of milk-fat droplets but is not essential for apocrine lipid secretion. *J Physiol.* 2016 Oct 15;594(20):5899-5921. doi: 10.1113/JP272390. Epub 2016 Aug 3. PubMed PMID: 27357166; PubMed Central PMCID: PMC5063925.
11. Frank DN, Bales ES, **Monks J**, Jackman MJ, MacLean PS, Ir D, Robertson CE, Orlicky DJ, McManaman JL. Perilipin-2 Modulates Lipid Absorption and Microbiome Responses in the Mouse Intestine. *PLoS One.* 2015;10(7):e0131944. doi: 10.1371/journal.pone.0131944. eCollection 2015. PubMed PMID: 26147095; PubMed Central PMCID: PMC4493139.
12. Neville MC, Webb P, Ramanathan P, Mannino MP, Pecorini C, **Monks J**, Anderson SM, MacLean P. The insulin receptor plays an important role in secretory differentiation in the mammary gland. *Am J Physiol Endocrinol Metab.* 2013 Nov 1;305(9):E1103-14. doi: 10.1152/ajpendo.00337.2013. Epub 2013 Aug 27. PubMed PMID: 23982156; PubMed Central PMCID: PMC3840206.

13. Crunk AE, **Monks J**, Murakami A, Jackman M, Maclean PS, Ladinsky M, Bales ES, Cain S, Orlicky DJ, McManaman JL. Dynamic regulation of hepatic lipid droplet properties by diet. *PLoS One*. 2013;8(7):e67631. doi: 10.1371/journal.pone.0067631. Print 2013. PubMed PMID: 23874434; PubMed Central PMCID: PMC3708958.
14. Orlicky DJ, **Monks J**, Stefanski AL, McManaman JL. Dynamics and molecular determinants of cytoplasmic lipid droplet clustering and dispersion. *PLoS One*. 2013;8(6):e66837. doi: 10.1371/journal.pone.0066837. Print 2013. PubMed PMID: 23825572; PubMed Central PMCID: PMC3692517.
15. Fini MA, **Monks J**, Farabaugh SM, Wright RM. Contribution of xanthine oxidoreductase to mammary epithelial and breast cancer cell differentiation in part modulates inhibitor of differentiation-1. *Mol Cancer Res*. 2011 Sep;9(9):1242-54. doi: 10.1158/1541-7786.MCR-11-0176. Epub 2011 Jul 20. PubMed PMID: 21775420; PubMed Central PMCID: PMC3175308.
16. Rudolph MC, **Monks J**, Burns V, Phistry M, Mariani R, Foote MR, Bauman DE, Anderson SM, Neville MC. Sterol regulatory element binding protein and dietary lipid regulation of fatty acid synthesis in the mammary epithelium. *Am J Physiol Endocrinol Metab*. 2010 Dec;299(6):E918-27. doi: 10.1152/ajpendo.00376.2010. Epub 2010 Aug 24. PubMed PMID: 20739508; PubMed Central PMCID: PMC3006251.
17. O'Brien J, Lyons T, **Monks J**, Lucia MS, Wilson RS, Hines L, Man YG, Borges V, Schedin P. Alternatively activated macrophages and collagen remodeling characterize the postpartum involuting mammary gland across species. *Am J Pathol*. 2010 Mar;176(3):1241-55. doi: 10.2353/ajpath.2010.090735. Epub 2010 Jan 28. PubMed PMID: 20110414; PubMed Central PMCID: PMC2832146.
18. **Monks J**, Henson PM. Differentiation of the mammary epithelial cell during involution: implications for breast cancer. *J Mammary Gland Biol Neoplasia*. 2009 Jun;14(2):159-70. doi: 10.1007/s10911-009-9121-0. Epub 2009 May 1. Review. PubMed PMID: 19408104.
19. **Monks J**, Smith-Steinhart C, Kruk ER, Fadok VA, Henson PM. Epithelial cells remove apoptotic epithelial cells during post-lactation involution of the mouse mammary gland. *Biol Reprod*. 2008 Apr;78(4):586-94. doi: 10.1095/biolreprod.107.065045. Epub 2007 Dec 5. PubMed PMID: 18057312.
20. **Monks J**. TGFbeta as a potential mediator of progesterone action in the mammary gland of pregnancy. *J Mammary Gland Biol Neoplasia*. 2007 Dec;12(4):249-57. doi: 10.1007/s10911-007-9056-2. Epub 2007 Nov 20. Review. PubMed PMID: 18027075.
21. **Monks J**, Rosner D, Geske FJ, Lehman L, Hanson L, Neville MC, Fadok VA. Epithelial cells as phagocytes: apoptotic epithelial cells are engulfed by mammary alveolar epithelial cells and repress inflammatory mediator release. *Cell Death Differ*. 2005 Feb;12(2):107-14. doi: 10.1038/sj.cdd.4401517. PubMed PMID: 15647754.
22. **Monks J**, Neville MC. Albumin transcytosis across the epithelium of the lactating mouse mammary gland. *J Physiol*. 2004 Oct 1;560(Pt 1):267-80. doi: 10.1113/jphysiol.2004.068403. Epub 2004 Aug 5. PubMed PMID: 15297572; PubMed Central PMCID: PMC1665199.
23. Geske FJ, **Monks J**, Lehman L, Fadok VA. The role of the macrophage in apoptosis: hunter, gatherer, and regulator. *Int J Hematol*. 2002 Jul;76(1):16-26. doi: 10.1007/bf02982714. Review. PubMed PMID: 12138891.
24. **Monks J**, Geske FJ, Lehman L, Fadok VA. Do inflammatory cells participate in mammary gland involution?. *J Mammary Gland Biol Neoplasia*. 2002 Apr;7(2):163-76. doi: 10.1023/a:1020351919634. Review. PubMed PMID: 12463737.
25. **Monks J**, Huey PU, Hanson L, Eckel RH, Neville MC, Gavigan S. A lipoprotein-containing particle is transferred from the serum across the mammary epithelium into the milk of lactating mice. *J Lipid Res*. 2001 May;42(5):686-96. PubMed PMID: 11352975.
26. **Monks J**, Neville MC. Vesicular transport of soluble substances into mouse milk. *Adv Exp Med Biol*. 2001;501:257-63. doi: 10.1007/978-1-4615-1371-1\_32. Review. PubMed PMID: 11787689.
27. Zhang P, Sawicki V, Lewis A, Hanson L, **Monks J**, Neville MC. The effect of serum iron concentration on iron secretion into mouse milk. *J Physiol*. 2000 Feb 1;522 Pt 3:479-91. doi: 10.1111/j.1469-7793.2000.t01-2-00479.x. PubMed PMID: 10713971; PubMed Central PMCID: PMC2271065.
28. Neville MC, Medina D, **Monks J**, Hovey RC. The mammary fat pad. *J Mammary Gland Biol Neoplasia*. 1998 Apr;3(2):109-16. doi: 10.1023/a:1018786604818. Review. PubMed PMID: 10819521.

29. Neville MC, Chatfield K, Hansen L, Lewis A, **Monks J**, Nuijens J, Ollivier-Bousquet M, Schanbacher F, Sawicki V, Zhang P. Lactoferrin secretion into mouse milk. Development of secretory activity, the localization of lactoferrin in the secretory pathway, and interactions of lactoferrin with milk iron. *Adv Exp Med Biol*. 1998;443:141-53. Review. PubMed PMID: 9781353.

#### Encyclopedia Entries:

1. **Monks J**, Mather IH. Mammary Gland, Milk Biosynthesis and Secretion: Secretion of Milk Constituents. In: McSweeney PL, McNamara JP, editors. *Encyclopedia of Dairy Sciences* [Internet] 3 ed. Academic Press: Elsevier; 2022. 206–213p. Available from: <https://dx.doi.org/10.1016/B978-0-12-818766-1.00011-8>.
2. Neville MC, **Monks J**. The Cell Biology of the Lactating Mammary Epithelium, in M. K. Skinner (Ed.), *Encyclopedia of Reproduction*. vol. 2. [Internet]. Academic Press: Elsevier; 2018 January. pp. 779–785. Available from: <https://doi.org/10.1016/B978-0-12-801238-3.64419-7>. DOI: 10.1016/B978-0-12-801238-3.64419-7.

## Published Abstracts and Presentations

### Oral Presentations

#### National/International Meetings (Invited)

1. **Monks J**. 2023. Nutrients and Metabolism in Normal and Cancer. Section Leader at Gordon Research Conference on Mammary Gland Biology: Molecules and Mechanisms From Normal Biology to Cancer. West Dover, VT.
2. **Monks J**, Martin Carli J. 2022. Insulin, Diabetes and Breastfeeding. Phoenix Epidemiology and Clinical Research Branch (PECRB). NIH, virtual seminar.
3. **Monks J**. 2019. Breastfeeding in the 21st century: Modern Resources and Challenges. American Gynecological Club. Denver, CO
4. **Monks J**, McManaman J. 2017. Cell Biology of Lactation: Docking and Stimulated Secretion of Milk Fat Globules. Invited speaker at the Gordon Research Conference on Mammary Gland Biology: Understudied Areas in Mammary Gland Biology and Breast Cancer. Stowe, VT.
5. **Monks J**, Henson P, Fadok VA. 2003. Clearance of Apoptotic Cells in the Involuting Mammary Gland, Invited speaker at the Gordon Research Conference on Clearance of Apoptotic Cells by Phagocytes: Mechanisms and Consequences. New London, CT.
6. **Monks J**, Fadok VA. 2002. Clearance of Apoptotic Cells in the Involuting Mammary Gland, Invited speaker at the 10th Euroconference on Apoptosis, Pasteur Institute, Paris.

#### Local/Regional Meetings (Invited)

1. **Monks J**. 2023. Human Milk Research & Biotechnology. Invited speaker at the Rocky Mountain Children's Health Foundation Healthy Baby Summit. Denver, CO.
2. **Monks J**. 2021. Mammary development and lactation (virtual presentation) WiSTEM group. University of Colorado Anschutz, Aurora, CO
3. **Monks J**. 2020. Understanding Lactation Insufficiency at the Cellular Level. Division of Reproductive Sciences Seminar. University of Colorado School of Medicine. Denver, CO
4. **Monks J**. 2019. Developing pre-clinical models to study how maternal obesity impairs lactation. Perinatal Research Center Seminar. University of Colorado Anschutz Medical Center, Denver, CO

### Poster Presentations

#### National/International Meetings

1. Orlicky DJ, Elliot E, Madi L, Llerena Cari E, Goodspeed AE, Danhorn T, Johnson J, Martin Carli J, Mather IH, McManaman JL, **Monks J**. 2023. Disruption of Milk Fat Globule Docking Reveals Mammary Adaptation Postpartum. Gordon Research Conference on Mammary Gland Biology: Molecules and Mechanisms From Normal Biology to Cancer. West Dover, VT.
2. Elliot E, Martin Carli J, Johnson J, Orlicky DJ, McManaman JL, **Monks J**, 2022. Lactogenesis requires cross-talk between the milk secretory cells and contractile, myoepithelial cells in the mammary gland. Society for Reproductive Investigation. Denver, CO.

3. **Monks J**, Martin Carli JF, Bales ES, Orlicky DJ, Mather IH, McManaman JL. 2019. Docking of Milk Fat Globules at the Apical Plasma Membrane Prior to Secretion. Gordon Research Conference: Heterogeneity in Mammary Gland Development and Breast Cancer. Newry, ME.
4. **Monks J**, Bales ES, Orlicky DJ, McManaman JL. 2019. Letdown Controls Lactation Success: Stimulated Secretion of Milk Fat Globules. Gordon Research Conference on Salivary Glands and Exocrine Biology, Galveston, TX.
5. **Monks J**, Dzieciatkowska M, Bales E, Libby AE, Orlicky DJ, McManaman JL. 2018. Perilipin 2 (ADRP/ADPH) dissociates cytoplasmic lipid droplets from the endoplasmic reticulum during milk fat secretion, International Milk Genomics Consortium Symposium in Sacramento, CA.
6. **Monks J**, Martin Carli J, Libby AE, Bales ES, Orlicky DJ, Mather IH, McManaman JL. 2017. Docking of Milk Fat Globules at the Apical Plasma Membrane Prior to Secretion, Gordon Research Conference on Mammary Gland Biology, Stowe, VT.
7. **Monks J**, Dzieciatkowska M, Bales ES, Orlicky DJ, Wright RM, McManaman JL. 2016. Xanthine Oxidoreductase mediates membrane docking of the lipid droplet during milk fat globule secretion. FASEB Lipid Droplets: Dynamic Organelles in Metabolism and Beyond.
8. Orlicky DL, Stefanski A, Chong B, **Monks J**, Monks C, McManaman JL. 2011. Perilipin, Moesin and Microtubule Dependence of Lipid Droplet Clustering and Dispersion. American Society for Cell Biology (ASCB) Annual Meeting.
9. **Monks J**, Henson P, Neville M. 2007. The Clearance Phase of Mammary Involution. Gordon Research Conference on Mammary Gland Biology, Newport, RI.
10. **Monks J**, Fadok VA. 2003. Clearance of Apoptotic Cells in the Involuting Mammary Gland. Gordon Research Conference on Mammary Gland Biology, Bristol, RI.
11. **Monks J**, Rosner D, Neville MC, Hanson L, Fadok VA. 2001. Clearance of Apoptotic Cells During Mammary Involution is Mediated by Mammary Epithelial Cells as well as by Macrophages. Keystone Symposium on Molecular Mechanisms of Apoptosis. Keystone, CO.
12. **Monks J**, Fadok VA. 2001. Clearance of Apoptotic Cells During Mammary Involution. Gordon Research Conference on Mammary Gland Biology, Bristol, RI.
13. **Monks J**, Neville MC. 1998. Elucidating albumin transcytosis across the mammary epithelium of the lactating mouse. Intracellular Transports in Mammary Epithelial Cells. INRA, Jouy-en-Josas, France.
14. **Monks J**, Neville MC. 1997. Transport of Extra-Alveolar Proteins into Mouse Milk. Gordon Research Conference on Mammary Gland Biology. Plymouth, NH.
15. **Monks J**, Gavigan S, Neville MC. 1996. LDL is transported whole, as is Albumin, across the Lactating Mammary Epithelium. Gordon Research Conference on Lipid Metabolism. Meriden, NH.
16. **Monks J**, Neville MC. 1995. LPL Transport in the Lactating Mammary Gland. Gordon Research Conference on Mammary Gland Biology. New London, NH.

#### **Local/Regional Meetings**

1. **Monks J**, Martin Carli JF, Bales ES, Orlicky DJ, McManaman JL. 2019. Mouse models of diet-induced-obesity have defective mammary gland development during pregnancy. Rocky Mountain Reproductive Sciences Symposium, Fort Collins, CO.
2. **Monks J**, Bales ES, Libby AE, Orlicky DJ, McManaman JL. 2018. Cell Biology of Lactation: Membrane Docking and Stimulated Secretion of Milk Fat Globules. Rocky Mountain Membrane Trafficking Meeting.
3. **Monks J**, Orlicky DJ, Libby AE, Bales ES, Rudolph MC, Johnson GC, Sherk VD, Jackman MR, MacLean PS, McManaman JL. 2017. Developmental Programming by Mother's Milk. Building Better Babies Symposium, Univ. Colo. Anschutz.
4. **Monks J**, Bales ES, Libby AE, Orlicky DJ, McManaman JL. 2016. Let-down Controls Lactation Success: Stimulated Secretion of Milk Fat Globules. Women's Health Research Day, Univ. Colo. Anschutz.
5. **Monks J**, Bales ES, Rudolph M, Johnson G, Jackman M, Orlicky DL, MacLean P, McManaman JL. 2015. Maternal Effects on the Neonate: Nursing is a susceptibility window for programming adverse health outcomes. Division of Reproductive Sciences Research Retreat, Univ. Colo. Anschutz.

6. **Monks J**, Bales ES, Cain S, Stevens S, Schaack J, Orlicky DJ, Wright RM, McManaman JL. 2014. Loss of Xanthine Oxidoreductase Impairs Milk Fat Globule Secretion. Women's Health Research Day, Univ. Colo. Anschutz.

### **Other Creative Products**

Birthing, Bonding & Breastfeeding: educational poster

Monks J and Christy Jo Hendricks, Available at <https://www.birthingandbreastfeeding.com/> 2021

### **Professional Community Activities**

#### **Scientific Advisor**

Advisory Council of the Mothers' Milk Bank  
Rocky Mountain Children's Health Foundation

**2018-present**