

## Curriculum Vitae Jennifer T. Smilowitz

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### **EDUCATION**

**Certified Lactation Educator**, Best Practices for Lactation Care, Pleasant Hill, 2015  
**Postdoctoral Scholar**, Department of Food Science & Technology, University of California Davis, 2009 - 2013  
**Ph.D. Nutritional Biology**, Specialization Endocrinology, University of California Davis, 2008  
**Fellow Business Development**, University of California Davis, 2006  
**B.Sc. Molecular, Cell and Developmental Biology**, University of California Los Angeles, 2001

### **PROFESSIONAL EXPERIENCE**

**Director of Scientific and Strategic Development**, International Milk Genomics Consortium 2019 - current  
**Associate Professional Researcher**, Department of Food Science & Technology, UC Davis 2019 - current  
**Assistant Professional Researcher**, Department of Food Science & Technology, UC Davis 2013 - 2019  
**Associate Director**, Human Studies Research, Foods for Health Institute, UC Davis 2010 - current  
**Consultant**, MetaNutrix, Moraga, CA 2009 - current

### **AWARDS AND HONORS**

UC Davis Chancellor's Innovation Award, University of California Davis, 2020  
Excellence in Postdoctoral Research, University of California Davis, Finalist, 2012  
Centennial Symposia Competition, University of California Davis, First place Poster, 2008  
American Chemical Society, Withycombe Charalambous Symposium, Finalist, 2008  
Graduate Studies Travel Award, University of California Davis, 2008  
Little Bang, Medical & Biotechnology Innovations, University of California Davis, First place project, 2006  
Business Development Fellowship, University of California Davis, 2006  
Agricultural Research Service, USDA WHNRC Graduate Fellowship, University of California, Davis, 2001

### **PROFESSIONAL MEMBERSHIPS**

International Society for Research in Human Milk and Lactation (ISRHML), 2019 - present  
American Breastfeeding Medicine, 2017 - present  
International Lactation Consultant Association, 2015 - present  
American Dietetic Association, 2010 - 2017  
American Society for Nutrition, 2008 - present  
American Chemical Society, 2007- 2016

### **LEADERSHIP AND ACADEMIC SERVICE**

#### **Committees**

- **Abstract Reviewer, Nutrition 2020 Conference**, American Society for Nutrition, 2020
- **Chair, Local Organizing Committee**, International Milk Genomics Consortium Annual Symposium, 2020

- **Member, Social Media Content Development**, International Society for Research in Human Milk and Lactation, Dec 2019
- **Member, Scientific Advisory Board**, Folsom Lake College Nutrition Education, November 2019
- **Member, Editorial Board**, *Nutrients*, October 2019
- **Grant Reviewer**, UC Davis Microbiome Graduate Research Award Program, July 2019
- **Member**, Northern California Institute of Food Technologists and UC Davis Food Science and Technology 2019 Showcase, January 2019 – December 2020
- **Member**, UC Davis Food Science and Technology Outreach Committee, January 2019 -December 2020
- **Co-organizer**, “FFHI and Center for Mind and Brain Nutrition and the Developing Mind Summit”, October 2015
- **Member and Moderator**, FFHI-UC Davis Comprehensive Cancer Center Conference Planning and Strategy for “Nutrition Interventions for Cancer”, 2012
- **Member**, FFHI-WHRNC USDA Conference Planning and Strategy, 2012
- **Chair**, Human Studies Coordinator Hiring Committee, 2011
- **Member**, Lactation Education for Medical Professionals Conference Planning, March 2011
- **Research Advisor**, FFHI Mentorship Program, 2009 - present
- **Program Director**, FFHI Mentorship, 2009 - present
- **Chair**, FFHI Outreach Program, 2009 - present

#### Ad Hoc Reviewer

- *Ad hoc* Reviewer Pediatric Infectious Disease Journal, 2020
- *Ad hoc* Reviewer Journal of Infectious Diseases, 2020
- *Ad hoc* Reviewer Current Developments in Nutrition, 2019
- *Ad hoc* Reviewer Scientific Reports, 2019
- *Ad hoc* Reviewer Journal of Human Lactation, 2017, 2020
- *Ad hoc* Reviewer PLOS ONE, 2016
- *Ad hoc* Reviewer Biomed Central Pregnancy and Childbirth, 2016
- *Ad hoc* Reviewer Journal of Human Nutrition and Dietetics, 2015
- *Ad hoc* Reviewer Journal of Nutrition and Metabolism, 2015
- *Ad hoc* Reviewer British Journal of Nutrition, 2014
- *Ad hoc* Reviewer Journal Molecular Nutrition Food Research, 2013
- *Ad hoc* Reviewer Journal of Nutrition, 2013
- *Ad hoc* Reviewer Journal of Nutrition, 2011
- *Ad hoc* Reviewer Journal of Clinical Nutrition, 2012
- *Ad hoc* Reviewer Journal of Clinical Nutrition, 2010
- *Ad hoc* Reviewer Journal of Nutrition and Metabolism, 2011
- *Ad hoc* Reviewer Journal of Agricultural and Food Chemistry, 2010

**PROFESSIONAL SERVICE****Consultant, Evolve Biosystems Inc., Davis, September 2014-2016**

Designed human studies on the effects of breastfeeding and probiotic intake on the infant gut microbiome.

**Consultant, Abunda Nutrition, a biotechnology company, San Francisco, March 2011-December 2011**

Consulted the company on the interpretation of their bioactive molecule research to identify new value propositions.

**Consultant, NUMA, a startup company, San Francisco, January 2010**

Designed the nutritional formulation for a snack food targeted at pregnant and lactating women.

**TEACHING EXPERIENCE****Webinar**

- Creator and Lecturer. In progress. Healthy Eating Patterns During Critical Life Stages: Essential for Optimal Health and Development. Dairy Council of California.
- Interview. April 2020. *The Infant Microbiome COVID-19 Project*. Alto Films LTD. United Kingdom. [https://medium.com/@Toni\\_Harman/what-does-a-pregnant-breast-milk-scientist-do-in-a-pandemic-fe3340a58d10](https://medium.com/@Toni_Harman/what-does-a-pregnant-breast-milk-scientist-do-in-a-pandemic-fe3340a58d10)
- Q&A. March 2020. *Breast Milk and the Infant Microbiome*. Alto Films LTD. United Kingdom. <https://microbirth.teachable.com/p/default-teachable-homepage>
- Q&A. February 2020. *Breast Milk and the Infant Microbiome*. Alto Films LTD. United Kingdom. <https://microbirth.teachable.com/p/default-teachable-homepage>
- Lecturer. October 2019. *Breast Milk and the Infant Microbiome*. Approved for 8 Hours CPD / CE / CERPs by IBLCE, ACNM, ACM, MEAC, NMC, LAMAZE, ICEA, CAPP, DONA. Microbirth School. Alto Films LTD. United Kingdom. <https://microbirth.teachable.com/p/default-teachable-homepage>
- Creator and Lecturer. In progress. *Why Breast Milk is Critical for Babies and their Gut Microbiomes*. Educational materials for the Contra Costa Medical Center.

**University of California Davis****Co-instructor**

- **Nutrition 250**, *Metabolic Homeostasis*, Fall 2004, 2005

**Guest Lecture**

- **Food Science and Technology 10**, *Food Science, Folklore and Health*, Lipids and fatty acid metabolism Fall, Winter, Spring 2005-2006
- **Food Science and Technology 100B**, *Food Properties*, Use of the postprandial challenge model to phenotype health and the science, technologies and education needed to improve diet and health personally, Winter 2010, 2011, 2013
- **Food Science and Technology 200**, *Food Chemistry and Biochemistry*, Lipids and fatty acid metabolism, Fall 2012

- **Food Science and Technology 230**, *Interactions of Food and the Gut Microbiota*, Designing food and microbiome studies, Spring 2019
- **Food Science and Technology 211**, *Lipids*, Fatty acid metabolism, Winter 2009-2013
- **Integrated Study Course 194**, *How to write a research paper?* Art and skill of writing research papers, Winter 2013,
- **Nutrition 116**, *Clinical Nutrition*, Lactation, Winter 2009-2013
- **Nutrition 260**, *Nutrition During Pregnancy*, Lipids, fatty acids and fat-soluble vitamins during pregnancy, Fall 2015, Fall 2017
- **Nutrition 298**, *Group Study*, Dietary lipids and metabolism, Fall 2012

#### TA

- **Food Science and Technology 1**, *Principles of Food Science*, Teaching Assistant, Fall 2005
- **Food Science and Technology 10**, *Food Science, Folklore and Health*, Teaching Assistant, Fall, Winter, Spring 2005-2006
- **Nutrition 10**, *Discoveries and Concepts in Nutrition*, Teaching Assistant, Fall, Winter, Spring 2003-2005

#### University of California Los Angeles

#### TA

- **Molecular Cell Developmental Biology 30**, *The Biology of Cancer*, Fall, Winter, Teaching Assistant, 1999-2000, Fall 2000
- **Molecular Cell Developmental Biology 40**, *AIDS and other Sexually Transmitted Diseases*, Teaching Assistant, Fall, Winter, Spring 1998-1999

#### FUNDING

##### Ongoing

**National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), 1R01DK124193-01**, *Annotating carbohydrate structures to develop markers for consumption of food*, \$ 1,958,216 (direct costs), 04/01/2020 – 12/31/2024, Carlito Lebrilla, PI; **Role: Co-PI**

**Innovation Institute for Food and Health UC Davis**, *Got Safe Milk?*, \$100,000 (direct costs), 07/01/2016-03/31/2021, **Role: PI**

**Mengniu Dairy Inc., Mengniu-University of California Davis Foods for Health Institute Nutrition and Health Innovation Partnership**, \$1,484,474 (direct costs), 04/01/2017-03/31/2021, **Role: PI**

##### Completed

**Clorox Renew Life**, *Effects of Streptococcus-containing probiotic on the microbiome in healthy human adults: Phase I randomized placebo-controlled study*, \$149,779 (direct costs), 06/12/2017-01/12/2020, **Role: PI**

**Evolve Biosystems Inc.**, *Rescuing the microbiome effectively with different doses of B. infantis in infants trial (REMEDI)*, \$227,503 (direct costs), 10/01/2017-05/31/2019, **Role: PI**

**USDA**, *Cardiovascular and Immune Benefits to Elders from Increased Dairy*, \$30,000 (direct costs), 07/1/2017-08/31/2018, Marta Van Loan, PI; **Role: Co-I**

**UC Davis Institute for Social Sciences (Oakes)**, *An examination of the connection between gut microbiota and cognitive development in infancy*, \$10,000 (direct costs), 05/2015-06/2017, Lisa Oakes, PI; **Role: Co-PI**

**Oregon Health and Science University, Innovations Small Grant Award, *Variability of Breast Milk Storage Technique and Impact on Infant Growth*, \$14,025 (direct costs), 04/2015-05/2016, Doria Thiele, PI; **Role: Co-PI****

**Evolve Biosystems Inc., *Infant Microbiota and Probiotic Intake*, \$145,969 (direct costs), 10/01/2014-09/30/2017, **Role: PI****

**Dairy Research Institute, *Pilot Study: Tolerability of feeding different doses of bovine milk oligosaccharides for modifying gastrointestinal function in healthy individuals*, \$129,743 (direct costs), 10/2011-09/2012, Daniela Barile, PI; **Role: Co-I****

**Dairy Research Institute, *Effects of Dairy Fat on Postprandial Inflammation*, \$599,458 (direct costs), 09/2011-08/2013, **Role: PI** with Angela Zivkovic (co-PI)**

**Unilever, *HDL Metabolism Modulation by Diet*, \$40,000 (direct costs), 09/2011-03/2012, **Role: PI****

### **PEER-REVIEWED PUBLICATIONS**

1. Westreich ST, Salcedo J, Durbin-Johnson B, **Smilowitz JT**, Korf I, Mills DA, Barile D, Lemay DG. Fecal metatranscriptomics and glycomics suggest that bovine milk oligosaccharides are fully utilized by healthy adults. *J Nutr Biochem*. 2020 Jan 17;79:108340. doi: 10.1016/j.jnutbio.2020.108340.
2. Henrick BM, Chew S, Casaburi G, Brown HK, Frese SA, Zhou Y, Underwood MA, **Smilowitz JT**. Colonization by *B. infantis* EVC001 modulates enteric inflammation in exclusively breastfed infants. *Pediatr Res*. 2019 Aug 23;. doi: 10.1038/s41390-019-0533-2. PMID: 31443102.
3. Casaburi G, Duar RM, Vance DP, Mitchell R, Contreras L, Frese SA, **Smilowitz JT**, Underwood MA. Early-life gut microbiome modulation reduces the abundance of antibiotic-resistant bacteria. *Antimicrob Resist Infect Control*. 2019;8:131. doi: 10.1186/s13756-019-0583-6. eCollection 2019. PMID: 31423298.
4. Goonatileke E, **Smilowitz JT**, Mariño KV, German JB, Lebrilla C, Barboza M. Immunoglobulin A N-glycosylation presents important body fluid-specific variations in lactating mothers. *Mol Cell Proteomics*. 2019 Aug 13;. doi: 10.1074/mcp. PMID: 31409668.
5. Goonatileke E, Huang J, Xu G, Wu L, **Smilowitz JT**, German JB, Lebrilla CB. Human Milk Proteins and Their Glycosylation Exhibit Quantitative Dynamic Variations during Lactation. *J Nutr*. 2019 Aug 1;149(8):1317-1325. doi: 10.1093/jn/nxz086. PMID: 31098625.
6. Beals E, Kamita SG, Sacchi R, Demmer E, Rivera N, Rogers-Soeder TS, Gertz ER, Van Loan MD, German JB, Hammock BD, **Smilowitz JT**, Zivkovic AM. Addition of milk fat globule membrane-enriched supplement to a high-fat meal attenuates insulin secretion and induction of soluble epoxide hydrolase gene expression in the postprandial state in overweight and obese subjects. *J Nutr Sci*. 2019;8:e16. PMID: 31080589.
7. Sanctuary MR, Kain JN, Chen SY, Kalanetra K, Lemay DG, Rose DR, Yang HT, Tancredi DJ, German JB, Slupsky CM, Ashwood P, Mills DA, **Smilowitz JT**, Angkustsiri K. Pilot study of probiotic/colostrum

- supplementation on gut function in children with autism and gastrointestinal symptoms. *PLoS One*. 2019;14(1):e0210064. doi: 10.1371/journal.pone.0210064. eCollection 2019. PMID: 30625189.
8. Yang Y, Rader E, Peters-Carr M, Bent RC, **Smilowitz JT**, Guillemin K, Rader B. Ontogeny of alkaline phosphatase activity in infant intestines and breast milk. *BMC Pediatr*. 2019 Jan 3;19(1):2. doi: 10.1186/s12887-018-1379-1. PMID: 30606146.
  9. Nijman, R., Y. Liu, A. Bunyatratkata, **J. T. Smilowitz**, B. Stahl, D. Barile. Characterization and quantification of oligosaccharides in human milk and infant formula. *Journal of Agricultural and Food Chemistry*. 2018.
  10. Bever, C. S., A. A. Rand, M. Nording, D. Taft, K. M. Kalanetra, D. A. Mills, M. A. Breck, **J. T. Smilowitz**, J. B. German, B. D. Hammock. Effects of triclosan in breast milk on the infant fecal microbiome. *Chemosphere* 203, 467-473. 2018. doi:https://doi.org/10.1016/j.chemosphere.2018.03.186.
  11. \*Henrick BM, Hutton AA, Palumbo MC, Casaburi G, Mitchell RD, Underwood MA, **Smilowitz JT**, Frese SA. Elevated Fecal pH Indicates a Profound Change in the Breastfed Infant Gut Microbiome Due to Reduction of Bifidobacterium over the Past Century. *mSphere*. 2018 Mar 7;3(2). pii: e00041-18. doi: 10.1128/mSphere. PMID: 29564397.
  12. Scoble JA, **Smilowitz JT**, Argov-Argaman N, German JB, Underwood MA. Plasma Lipoprotein Particle Subclasses in Preterm Infants. *Am J Perinatol*. 2018 Mar;35(4):369-379. doi: 10.1055/s-0037-1607347. PMID: 29076117.
  13. \*Meredith-Dennis L, Xu G, Goonatileke E, Lebrilla CB, Underwood MA, **Smilowitz JT**. Composition and Variation of Macronutrients, Immune Proteins, and Human Milk Oligosaccharides in Human Milk From Nonprofit and Commercial Milk Banks. *J Hum Lact*. 2018 Feb;34(1):120-129. doi: 10.1177/0890334417710635. PMID: 28614672.
  14. Cajka T, **Smilowitz JT**, Fiehn O. Validating Quantitative Untargeted Lipidomics Across Nine Liquid Chromatography-High-Resolution Mass Spectrometry Platforms. *Anal Chem*. 2017 Nov 21;89(22):12360-12368. doi: 10.1021/acs.analchem.7b03404. PMID: 29064229.
  15. \*Frese SA, Hutton AA, Contreras LN, Shaw CA, Palumbo MC, Casaburi G, Xu G, Davis JCC, Lebrilla CB, Henrick BM, Freeman SL, Barile D, German JB, Mills DA, **Smilowitz JT**, Underwood MA. Persistence of Supplemented Bifidobacterium longum subsp. infantis EVC001 in Breastfed Infants. *mSphere*. 2017 Dec 6;2(6). pii: e00501-17. doi: 10.1128/mSphere.00501-17. PMID: 29242832.
  16. **Smilowitz JT**, Moya J, Breck MA, Cook C, Fineberg A, Angkustsiri K, Underwood MA. Erratum to: Safety and tolerability of Bifidobacterium longum subspecies infantis EVC001 supplementation in healthy term breastfed infants: a phase I clinical trial. *BMC Pediatr*. 2017 Aug 15;17(1):180. doi: 10.1186/s12887-017-0932-7. PMID: 28810848.
  17. **Smilowitz JT**, Moya J, Breck MA, Cook C, Fineberg A, Angkustsiri K, Underwood MA. Safety and tolerability of Bifidobacterium longum subspecies infantis EVC001 supplementation in healthy term breastfed infants: a phase I clinical trial. *BMC Pediatr*. 2017 May 30;17(1):133. doi: 10.1186/s12887-017-0886-9. Erratum in: *BMC Pediatr*. 2017 Aug 15;17 (1):180. PubMed PMID: 28558732.

18. Krishnan S, Shimoda M, Sacchi R, Kailemia MJ, Luxardi G, Kaysen GA, Parikh AN, Ngassam VN, Johansen K, Chertow GM, Grimes B, **Smilowitz JT**, Maverakis E, Lebrilla CB, Zivkovic AM. HDL Glycoprotein Composition and Site-Specific Glycosylation Differentiates Between Clinical Groups and Affects IL-6 Secretion in Lipopolysaccharide-Stimulated Monocytes. *Sci Rep*. 2017 Mar 13;7:43728. doi: 10.1038/srep43728. PubMed PMID: 28287093; PubMed Central PMCID: PMC5347119.
19. Rogers TS, Demmer E, Rivera N, Gertz ER, German JB, **Smilowitz JT**, Zivkovic AM, Van Loan MD. The role of a dairy fraction rich in milk fat globule membrane in the suppression of postprandial inflammatory markers and bone turnover in obese and overweight adults: an exploratory study. *Nutr Metab (Lond)*. 2017 May 17;14:36. doi: 10.1186/s12986-017-0189-z. eCollection 2017. PubMed PMID: 28529534; PubMed Central PMCID: PMC5436451.
20. **Smilowitz JT**, Lemay DG, Kalanetra KM, Chin EL, Zivkovic AM, Breck MA, German JB, Mills DA, Slupsky C, Barile D. Tolerability and safety of the intake of bovine milk oligosaccharides extracted from cheese whey in healthy human adults. *J Nutr Sci*. 2017 Feb 20;6:e6. doi: 10.1017/jns.2017.2. eCollection 2017. PubMed PMID: 28620481; PubMed Central PMCID: PMC5465862.
21. Xu G, Davis JC, Goonatileke E, **Smilowitz JT**, German JB, Lebrilla CB. Absolute Quantitation of Human Milk Oligosaccharides Reveals Phenotypic Variations during Lactation. *J Nutr*. 2017 Jan;147(1):117-124. doi: 10.3945/jn.116.238279. Epub 2016 Oct 19. PubMed PMID: 27798342; PubMed Central PMCID: PMC5177733.
22. Huang J, Kailemia MJ, Goonatileke E, Parker EA, Hong Q, Sabia R, **Smilowitz JT**, German JB, Lebrilla CB. Quantitation of Human Milk Proteins and their Glycoforms using Multiple Reaction Monitoring (MRM). *Analytical and bioanalytical chemistry* 2017, 409(2):589-606.
23. Davis JC, Totten SM, Huang JO, Nagshbandi S, Kirmiz N, Garrido DA, Lewis ZT, Wu LD, **Smilowitz JT**, German JB, Mills DA, Lebrilla CB. Identification of Oligosaccharides in Feces of Breast-fed Infants and Their Correlation with the Gut Microbial Community. *Mol Cell Proteomics*. 2016 Sep;15(9):2987-3002. doi: 10.1074/mcp.M116.060665. Epub 2016 Jul 19. PubMed PMID: 27435585; PubMed Central PMCID: PMC5013312.
24. Awasthi S, Wilken R, Patel F, German JB, Mills DA, Lebrilla CB, Kim K, Freeman SL, **Smilowitz JT**, Armstrong AW, Maverakis E. Dietary supplementation with *Bifidobacterium longum* subsp. *infantis* (B. *infantis*) in healthy breastfed infants: study protocol for a randomised controlled trial. *Trials*. 2016 Jul 22;17(1):340. doi: 10.1186/s13063-016-1467-1. PubMed PMID: 27449926; PubMed Central PMCID: PMC4957407.
25. \*Cajka T, Davis R, Austin KJ, Newman JW, German JB, Fiehn O, **Smilowitz JT**. Using a lipidomics approach for nutritional phenotyping in response to a test meal containing gamma-linolenic acid. *Metabolomics : Official journal of the Metabolomic Society*. 2016; 12:1-16.
26. Demmer E, Van Loan MD, Rivera N, Rogers TS, Gertz ER, German JB, **Smilowitz JT**, Zivkovic AM. Addition of a dairy fraction rich in milk fat globule membrane to a high-saturated fat meal reduces the postprandial insulinaemic and inflammatory response in overweight and obese adults. *J Nutr Sci*. 2016

Mar 7;5:e14. doi: 10.1017/jns.2015.42. eCollection 2016. PubMed PMID: 27313850; PubMed Central PMCID: PMC4791522.

27. \*Demmer E, Van Loan MD, Rivera N, Rogers TS, Gertz ER, German JB, Zivkovic AM, **Smilowitz JT**. Consumption of a high-fat meal containing cheese compared with a vegan alternative lowers postprandial C-reactive protein in overweight and obese individuals with metabolic abnormalities: a randomised controlled cross-over study. *J Nutr Sci*. 2016 Feb 9;5:e9. doi: 10.1017/jns.2015.40. eCollection 2016. PubMed PMID: 27313852; PubMed Central PMCID: PMC4791521.
28. Zeng NF, Mancuso JE, Zivkovic AM, **Smilowitz JT**, Ristenpart WD. Red Blood Cells from Individuals with Abdominal Obesity or Metabolic Abnormalities Exhibit Less Deformability upon Entering a Constriction. *PLoS One*. 2016 Jun 3;11(6):e0156070. doi: 10.1371/journal.pone.0156070. eCollection 2016. PubMed PMID: 27258098; PubMed Central PMCID: PMC4892523.
29. Napoli E, Ross-Inta C, Song G, Wong S, Hagerman R, Gane LW, **Smilowitz JT**, Tassone F, Giulivi C. Premutation in the Fragile X Mental Retardation 1 (FMR1) Gene Affects Maternal Zn-milk and Perinatal Brain Bioenergetics and Scaffolding. *Front Neurosci*. 2016 Apr 19;10:159. doi: 10.3389/fnins.2016.00159. eCollection 2016. PubMed PMID: 27147951; PubMed Central PMCID: PMC4835505.
30. Lewis ZT, Davis JC, **Smilowitz JT**, German JB, Lebrilla CB, Mills DA. The impact of freeze-drying infant fecal samples on measures of their bacterial community profiles and milk-derived oligosaccharide content. *PeerJ*. 2016 Jan 21;4:e1612. doi: 10.7717/peerj.1612. eCollection 2016. PubMed PMID: 26819854; PubMed Central PMCID: PMC4727960.
31. Goldsmith F, O'Sullivan A, **Smilowitz JT**, Freeman SL. Lactation and Intestinal Microbiota: How Early Diet Shapes the Infant Gut. *J Mammary Gland Biol Neoplasia*. 2015 Dec;20(3-4):149-58. doi: 10.1007/s10911-015-9335-2. Epub 2015 Jul 31. Review. PubMed PMID: 26227402.
32. Spevacek AR, **Smilowitz JT**, Chin EL, Underwood MA, German JB, Slupsky CM. Infant Maturity at Birth Reveals Minor Differences in the Maternal Milk Metabolome in the First Month of Lactation. *J Nutr*. 2015 Aug;145(8):1698-708. doi: 10.3945/jn.115.210252. Epub 2015 Jun 3. PubMed PMID: 26041675; PubMed Central PMCID: PMC4516766.
33. Beck KL, Weber D, Phinney BS, **Smilowitz JT**, Hinde K, Lönnerdal B, Korf I, Lemay DG. Comparative Proteomics of Human and Macaque Milk Reveals Species-Specific Nutrition during Postnatal Development. *J Proteome Res*. 2015 May 1;14(5):2143-57. doi: 10.1021/pr501243m. Epub 2015 Apr 6. PubMed PMID: 25757574.
34. Huang J, Guerrero A, Parker E, Strum JS, **Smilowitz JT**, German JB, Lebrilla CB. Site-specific glycosylation of secretory immunoglobulin A from human colostrum. *J Proteome Res*. 2015 Mar 6;14(3):1335-49. doi: 10.1021/pr500826q. Epub 2015 Feb 11. PubMed PMID: 25629924; PubMed Central PMCID: PMC5519350.
35. Dallas DC, Smink CJ, Robinson RC, Tian T, Guerrero A, Parker EA, **Smilowitz JT**, Hettinga KA, Underwood MA, Lebrilla CB, German JB, Barile D. Endogenous human milk peptide release is greater after preterm



- birth than term birth. *J Nutr*. 2015 Mar;145(3):425-33. doi: 10.3945/jn.114.203646. Epub 2014 Dec 24. PubMed PMID: 25540406; PubMed Central PMCID: PMC4336528.
36. \*Grapov D, Lemay DG, Weber D, Phinney BS, Azulay Chertok IR, Gho DS, German JB, **Smilowitz JT**. The human colostrum whey proteome is altered in gestational diabetes mellitus. *J Proteome Res*. 2015 Jan 2;14(1):512-20. doi: 10.1021/pr500818d. Epub 2014 Dec 1. PubMed PMID: 25338220; PubMed Central PMCID: PMC4286167.
37. Lewis ZT, Totten SM, **Smilowitz JT**, Popovic M, Parker E, Lemay DG, Van Tassell ML, Miller MJ, Jin YS, German JB, Lebrilla CB, Mills DA. Maternal fucosyltransferase 2 status affects the gut bifidobacterial communities of breastfed infants. *Microbiome*. 2015 Apr 10;3:13. doi: 10.1186/s40168-015-0071-z. eCollection 2015. PubMed PMID: 25922665; PubMed Central PMCID: PMC4412032.
38. \*O'Sullivan A, Farver M, **Smilowitz JT**. The Influence of Early Infant-Feeding Practices on the Intestinal Microbiome and Body Composition in Infants. *Nutr Metab Insights*. 2015 Dec 16;8(Suppl 1):1-9. doi: 10.4137/NMI.S29530. eCollection 2015. Erratum in: *Nutr Metab Insights*. 2016 Oct 27;8(Suppl 1):87. PubMed PMID: 26715853; PubMed Central PMCID: PMC4686345.
39. Totten SM, Wu LD, Parker EA, Davis JC, Hua S, Stroble C, Ruhaak LR, **Smilowitz JT**, German JB, Lebrilla CB. Rapid-throughput glycomics applied to human milk oligosaccharide profiling for large human studies. *Anal Bioanal Chem*. 2014 Dec;406(30):7925-35. doi: 10.1007/s00216-014-8261-2. Epub 2014 Oct 31. PubMed PMID: 25358913.
40. Khaldi N, Vijayakumar V, Dallas DC, Guerrero A, Wickramasinghe S, **Smilowitz JT**, Medrano JF, Lebrilla CB, Shields DC, German JB. Predicting the important enzymes in human breast milk digestion. *J Agric Food Chem*. 2014 Jul 23;62(29):7225-32. doi: 10.1021/jf405601e. Epub 2014 Jul 10. PubMed PMID: 24620897; PubMed Central PMCID: PMC4264622.
41. **Smilowitz JT**, Gho DS, Mirmiran M, German JB, Underwood MA. Rapid measurement of human milk macronutrients in the neonatal intensive care unit: accuracy and precision of fourier transform mid-infrared spectroscopy. *J Hum Lact*. 2014 May;30(2):180-9. doi: 10.1177/0890334413517941. Epub 2014 Jan 14. PubMed PMID: 24423984.
42. Hong Q, Ruhaak LR, Totten SM, **Smilowitz JT**, German JB, Lebrilla CB. Label-free absolute quantitation of oligosaccharides using multiple reaction monitoring. *Anal Chem*. 2014 Mar 4;86(5):2640-7. doi: 10.1021/ac404006z. Epub 2014 Feb 20. PubMed PMID: 24502421; PubMed Central PMCID: PMC3983013.
43. Huang J, Lee H, Zivkovic AM, **Smilowitz JT**, Rivera N, German JB, Lebrilla CB. Glycomic analysis of high density lipoprotein shows a highly sialylated particle. *J Proteome Res*. 2014 Feb 7;13(2):681-91. doi: 10.1021/pr4012393. Epub 2014 Jan 21. PubMed PMID: 24417605; PubMed Central PMCID: PMC3975653.
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**NON-PEER-REVIEWED PUBLICATIONS**

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**BOOK CHAPTERS**

**Smilowitz JT**, German JB, Zivkovic AM. Food Intake and Obesity: The Case of Fat. Fat Detection: Taste, Texture, and Post-ingestive Effects. Montmayeur, J. P. & Le Coutre, J. *Fat detection: Taste, texture, and post ingestive effects*. (CRC, 2009).

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**ABSTRACTS - POSTERS**

Bethany Henrick, **Jennifer T. Smilowitz**. B. infantis EVC001 Colonization in Breastfed Infants Modulates Cytokine Profile Linked to Autoimmune and Allergic Diseases. American Academy of Pediatrics (AAP). San Diego, CA. 2020.

**Jennifer T. Smilowitz**, Karen M. Kalanetra, Anna Meier, Karina Kurudimov, Mark A. Underwood MD, David A Mills. Probiotic Supplementation with *S. salivarius* K12 in Healthy Adults Increases Oral *S. salivarius* K12 in a Randomized, Double-Blind, Placebo-Controlled Study. Nutrition 2020 Live Online, American Society Nutrition (ASN). 2020. E-Poster.

**Jennifer T. Smilowitz**, Matthew J. Amicucci, Eshani Nandita, Ace G. Galermo, Diane Tu, Diana H. Taft, Anna Meier, Karina Kurudimov, Lisa M. Oakes, J. Bruce German, Bethany M. Henrick, David A. Mills, Carlito B. Lebrilla. The Introduction of Plant-Derived Glycans in Exclusively 6-Month Old Breastfed Infants Alters Fecal Glycan Profiles and Microbial Metabolism (IMiND Study). Nutrition 2020 Live Online, American Society Nutrition (ASN). 2020. E-Poster.

Bethany Henrick, **Jennifer T. Smilowitz**. Infantis EVC001 Colonization in Breastfed Infants Modulates Cytokine Profile Linked to Autoimmune and Allergic Diseases. Pediatric Academic Societies (PAS). Philadelphia, PA. 2020.

Bethany Henrick, **Jennifer T. Smilowitz**. B. infantis EVC001 Colonization in Breastfed Infants Modulates Cytokine Profile Linked to Autoimmune and Allergic Diseases. American Academy of Pediatrics (AAP). San Diego, CA. 2020.

Bethany Henrick, **Jennifer T. Smilowitz**. Restoring the Natural Infant Gut Microbiome with Bifidobacterium Infantis EVC001 Significantly Reduces Intestinal Inflammation. Pediatric Academic Societies (PAS). Baltimore, MD. 2019.

Giorgio Casaburi, **Jennifer T. Smilowitz**. Early-life gut microbiome modulation reduces the abundance of antibiotic resistant bacteria. Pediatric Academic Societies (PAS). Baltimore, MD. 2019.

Diane Tu, Carol Stroble, Gege Xu, Matthew J. Amicucci, **Jennifer T. Smilowitz**, Carlito B. Lebrilla. Rapid Throughput Quantitation of Carboxylic Acid Metabolites Using UHPLC/QqQ-MS to Monitor Diet and the Microbiome. American Society of Mass Spectrometry (ASMS). Atlanta, GA. 2019.

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- Giorgio Casaburi, PhD, Andra A. Hutton MS, Claire A. Shaw, Steven A. Frese PhD, **Jennifer T. Smilowitz** PhD<sup>3</sup>, Mark A. Underwood MD. Metagenomic analysis reveals reduction in antibiotic resistance gene carriage in breastfed infants supplemented with activated *Bifidobacterium longum* subsp. *infantis*. American Academy of Pediatrics. Chicago, IL. 2017.
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- Jennifer T. Smilowitz** PhD, Melissa A. Breck, Jackeyln Moya, Annette Fineberg MD, Mark Underwood MD. : Safety and Tolerability in Consuming *Bifidobacterium longum* subspecies *infantis* in exclusively breastfed term infant. American Academy of Pediatrics. San Diego, CA. 2016.
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- Scoble J, **Smilowitz JT**, German JB, Underwood MA. Distribution of Plasma Lipoprotein Size in Preterm Infants in the First Month of Life, Western Society for Pediatric Research. Carmel, CA. 2013
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- Eigenheer RT, **Smilowitz JT**, Phinney B. Proteomic Comparison of Photoaging and Chronological Aging by ANOVA and Bayes Factors. Association of Biomolecular Resource Facilities. Sacramento, CA. 2010.
- Smilowitz JT**, Argov N, Eigenheer RA, Lemay DG, German JB. Metabolic Phenotyping to Assess Personalized Nutrition: Use of the Response-to-Challenge Model. Experimental Biology, Anaheim, CA. 2010.
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**Smilowitz JT**, Horn B, Keim N. Refined grain carbohydrates increase plasma glucose, insulin and leptin levels compared to whole grain carbohydrates in overweight females. *Experimental Biology*, San Diego, CA. 2003.

### INVITED TALKS

- Restoring the gut microbiome of breastfed infants over the first year of life Got Milk? Variability in Milk Composition and Effects on Offspring Health. American Dietetic Association 79<sup>th</sup> Scientific Sessions, CA. June 2019.
- Factors that influence the infant gut microbiome. Contra Costa Regional Medical Center, Grand Rounds Presentation. Contra Costa County, CA. March 2019.
- *Bifidobacterium Longum* Subsp. *Infantis* Stably Restores the Infant Gut Microbiome Over the First Year of Life in Breastfed Infants. International Milk Genomics Consortium. Sacramento, CA. Nov 2018.
- Community Science Cafe Conversations: Restoring the Infant Gut Microbiome, A Conversation with Dr. Smilowitz. Research and Education Community Advisory Board. Sacramento, CA. July 2018.
- Restoring the Infant Gut Microbiome in an industrialized World. UC Davis Center for Mind and Brain. Davis, CA. July 2018.
- *Bifidobacterium longum* subsp. *infantis* stably restores the infant gut microbiome over the first year of life in breastfed infants. American Society for Nutrition. Boston, MA. June 2018.
- Delivery mode and the infant's diet, influence long-term development of the gut microbiome. Contra Costa County WIC, CA. November 2017.
- A Heritage of Health: Your Baby's Gut Microbiome, Contra Costa County Breastfeeding Task Force WIC. Contra Costa County, CA. November 2017.
- Establishing the infant gut microbiome from delivery, diet and environment and consequences on health. Contra Costa Regional Medical Center, Grand Rounds Presentation. Contra Costa County, CA. October 2017.
- Delivery mode and the infant's specific diet, influence long-term development of the gut microbiome. Contra Costa County WIC, CA. January 2017.
- Factors that influence long-term development of the gut microbiome. What do we know now that we did not know 5 years ago? Kaiser Pinole, Breastfeeding: Comprehensive Content Course. Pinole, CA. November 2016.
- Safety and Tolerability following Consumption of *Bifidobacterium longum* subspecies *infantis* in exclusively breastfed term infants: IMPRINT Study, International Milk Genomics Consortium. Davis, CA. October 2016.
- How delivery mode and the infant's diet, influence the developing gut microbiome. Kaiser Vallejo, Breastfeeding: Comprehensive Content Course. Vallejo, CA. June 2016.
- The International Childbirth Education Association; invited lecture, Carmichael, CA. June 2016.
- Establishing the infant gut microbiome from delivery, diet and environment and consequences on health, California WIC Annual Conference and Trade Show. San Diego, CA. April 2016.
- How the mode of delivery, and the infant's specific diet, influence long-term development of the gut microbiome. What do we know now that we did not know 5 years ago? Kaiser Roseville, Breastfeeding: Comprehensive Content Course. Roseville, CA. March 2016.
- Mother's Milk for Profit: Focus on Health Equity, Public Health Boots on the Ground Series UC Berkeley. Berkeley, CA. February 2016
- Influences of the infant intestinal microbiome, Sacramento County WIC, Rancho Cordova, CA. February 2016.
- Introducing the IMPRINT Study, California Breastfeeding Summit Creating a Constellation: Charting the Course for Breastfeeding Success. Sacramento, CA. February 2016

- Influences of the infant intestinal microbiome, Sacramento Breastfeeding Coalition Fall Mixer. Sacramento, CA. November 2015.
- Effects of gestational diabetes mellitus on protective factors in human milk, UC Davis Center for Mind and Brain Summit Series: Nutrition and the Developing Mind, Center for Mind and Brain. Davis, CA. October 2015.
- Building the Science, Technologies and Education to Personalize Diet and Health, National Agricultural Biotechnology Council, National Biotechnology Conference, Davis, CA. June 2010,
- Bringing Synbiotic Interventions in Cancer to Practice: from bench to bedside, Cancer Research Symposium, UC Davis Comprehensive Cancer Center, Sacramento, CA. September, 2012.
- Biochemical Phenotyping to Assess Individual Metabolism: a Bioguide for the Agriculture Industry. American Chemical Society, Withycombe-Charalambous Graduate Student Symposium. New Orleans, LA. April 2008.