

# Tzu-Wen L. Cross, PhD

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## PROFESSIONAL APPOINTMENTS

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### Assistant Professor, 2019-present

*Department of Nutrition Science, Purdue University, West Lafayette, IN, USA*  
*Graduate Faculty Member, Purdue Interdisciplinary Life Science (PULSe) Program*  
*Faculty associate, Purdue Institute for Inflammation, Immunology, and Infectious Disease*  
*Faculty associate, Purdue Institute for Integrative Neuroscience*

### Postdoctoral Research Fellow, September 2017-August 2019

*NIH T32 Postdoctoral Fellow in Translational Cardiovascular Science Training Program*  
*Department of Bacteriology, University of Wisconsin-Madison, Madison, WI, USA*

### Postdoctoral Research Associate, January-August 2017

*Department of Animal Sciences, University of Illinois at Urbana-Champaign, Urbana, IL, USA*

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## EDUCATION

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### Ph.D. in Nutritional Sciences, 2016

*University of Illinois at Urbana-Champaign, Urbana, IL, USA*

### M.S. in Nutritional Sciences, 2013

*University of Missouri-Columbia, Columbia, MO, USA*

### B.S. in Nutrition and Human Health/Dietetics, 2009

*Taipei Medical University, Taipei, Taiwan*

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## PUBLICATIONS

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### Refereed Journal Articles

1. A. C. Organski, J. S. Jorgensen, **T.-W. L. Cross** (2021) "Involving the life Inside: The Complex Endocrine Regulation and the Gut Microbiota", *Current Opinion in Endocrine and Metabolic Research*, pp. 100284, DOI: 10.1016/j.coemr.2021.100284
2. A. Biruete, **T.-W. L. Cross**, J. M. Allen, B. M. Kistler, H. de Loor, P. Evenepoel, G. C. Fahey Jr, L. Bauer, K. S. Swanson, K. R. Wilund (2021) "Effect of Dietary Inulin Supplementation on the Gut Microbiota Composition and Derived Metabolites of Individuals Undergoing Hemodialysis: A Pilot Study", *Journal of Renal Nutrition*, 2021 Sep;31(5):512-522
3. S. M Murga-Garrido\*, Q. Q. Hong\*, **T.-W. L. Cross\***, E. Hutchison, J. Han, S. Thomas, E. I. Vivas, J. Denu, D. G. Ceschin, Z.-Z. Tang, F. E. Rey (2021) "Gut Microbiome Variation Modulates the Effects of Dietary Fiber on Host Metabolism", *Microbiome*, 9:117(2021)  
**\*Authors contributed equally to this work**
4. C. Alexander, **T.-W. L. Cross**, A. H. Lee, L. K. Ly, M. D. Vieson, J. M. Ridlon, E. R. Nelson, K. S. Swanson (2021) "Development of a novel model of cholecystectomy in subsequently ovariectomized mice and characterization of metabolic and gastrointestinal phenotypes: a pilot study", *BMC Gastroenterol*, 21(1):62
5. K. E. Witt, K. Yarlagadda, J. M. Allen, A. C. Bader, M. L. Simon, S. R. Kuehn, K. S. Swanson, **T.-W. L. Cross**, K. M. Hedman, S. H. Ambrose, R. S. Malhi (2021), "Integrative analysis of DNA, macroscopic remains and stable isotopes of dog coprolites to reconstruct community diet", *Scientific Reports*, 11:3113
6. S. Prabhu, H. Deng, **T.-W. L. Cross**, S. H. Shahoei, C. J. Konopka, N. G. Medina, C. C. Applegate, M. A. Wallig, L. W. Dobrucki, E. R. Nelson, A. M. Smith, K. S. Swanson (2021), "Nanocarriers targeting adipose macrophages increase glucocorticoid anti-inflammatory potency to ameliorate metabolic dysfunction", *Biomaterials Science*, DOI: 10.1039/d0bm01142h

7. A. N. Beloshapka, **T.-W. L. Cross**, K. S. Swanson (2021), “Graded dietary resistant starch concentrations on apparent total tract macronutrient digestibility and fecal fermentative end-products and microbial populations of healthy adult dogs”, *Journal of Animal Science*, 99:1
8. R. F. Chehab, **T.-W. L. Cross**, M. R. Forman (2020), “The gut microbiota: A promising target in the relation between complementary feeding and child undernutrition”, *Advances in Nutrition*, <https://doi.org/10.1093/advances/nmaa146>
9. C. Keller, P. Wei, B. Wancewicz, **T.-W. L. Cross**, F. E. Rey, L. Li (2020), “Extraction optimization for combined metabolomics, peptidomics, and proteomics analysis of gut microbiota samples”, *Journal of Mass Spectrometry*, <https://doi.org/10.1002/jms.4625>
10. R. Liu, P. Wei, C. Keller, N. Salvatore Orefice, Y. Shi, Z. Li, J. Huang, Y. Cui, D. C. Frost, S. Han, **T.-W. L. Cross**, F. E. Rey, L. Li (2020), “Integrated label-free and 10-plex DiLeu isobaric tag quantitative methods for profiling changes in the mouse hypothalamic neuropeptidome and proteome: assessment of the impact of the gut microbiome”, *Analytical Chemistry*, 92(20):14021–14030
11. M. G. Sublette, **T.-W. L. Cross**, C. E. Korcarz, K. M. Hansen, S. M. Murga-Garrido, S. L. Hazen, Z. Wang, M. K. Oguss, F. E. Rey, J. H. Stein (2020), “Effects of smoking and smoking cessation on the intestinal microbiota”, *Journal of Clinical Medicine*, 9:2963
12. C.-Y. Lin, **T.-W. L. Cross**, E. Doukhanine, K. S. Swanson (2020), “An ambient temperature collection and stabilization strategy for canine microbiota studies”, *Scientific Reports* 10:13383
13. C.-I. Lin, Y.-C. Chang, N.-J. Kao, W.-J. Lee, **T.-W. L. Cross**, S.-H. Lin (2020), “1,25(OH)<sub>2</sub>D<sub>3</sub> alleviates A $\beta$ (25-35)-induced tau hyperphosphorylation, excessive reactive oxygen species and apoptosis through interplay with glial cell line-derived neurotrophic factor signaling in SH-SY5Y cells”, *International Journal of Molecular Sciences*, 21, 4215
14. H. Deng, C. J. Konopka, **T.-W. L. Cross**, K. S. Swanson, L. W. Dobrucki, A. M. Smith (2020), “Multimodal Nanocarrier Probes Reveal Superior Biodistribution Quantification by Isotopic Analysis over Fluorescence”, *American Chemical Society Nano*, 14(1):509–523
15. G. A. Casas, L. Blavi, **T.-W. L. Cross**, A. Lee, K. S. Swanson, H. H. Stein (2019) “Inclusion of the direct fed microbial *Clostridium butyricum* in diets for weanling pigs increases growth performance and tends to increase villus height and crypt depth but does not change the intestinal microbial composition”, *Journal of Animal Science* (doi: 10.1093/jas/skz372)
16. V. J. Vieira-Potter, **T.-W. L. Cross**, K. S. Swanson, S. J. Sarma, Z. Lei, L. W. Sumner, C. S. Rosenfeld (2018) “Soy-induced fecal metabolome changes in ovariectomized and intact female rats: relationship with cardiometabolic health”, *Scientific Reports*, 8: 16896
17. **T.-W. L. Cross**, K. Kasahara, F. E. Rey (2018), “Sexual dimorphism of cardiometabolic dysfunction: gut microbiome in the play?”, *Molecular Metabolism*, 15 (2018) 70e81
18. L. Mailing, J. Allen, B. Pence, J. Rytych, Y. Sun, T. Bhattacharya, P. Park, **T.-W. L. Cross**, R. McCusker, K. S. Swanson, G. C. Fahey, J. Rhodes, K. W. Kelley, R. Johnson, J. Woods (2018), “Behavioral response to fiber feeding is cohort-dependent and associated with gut microbiota composition in mice”, *Behavioral Brain Research*, 359:731-736
19. C. Alexander, **T.-W. L. Cross**, S. Devendran, F. Neumer, S. Theis, J. M. Ridlon, J. S. Suchodolski, M. R. C. de Godoy, K. S. Swanson (2018), “Effects of prebiotic inulin-type fructans on blood metabolite and hormone concentrations and fecal microbiota and metabolites in overweight dogs”, *British Journal of Nutrition*, 120(6): 711-720
20. K. M. Algya, **T.-W. L. Cross**, K. N. Leuck, M. E. Kastner, T. Baba, L. Lye, M. R. C. de Godoy, K. S. Swanson (2018) “Apparent total tract macronutrient digestibility, serum chemistry, urinalysis, and fecal characteristics, metabolites and microbiota of adult dogs fed extruded, mildly cooked, and raw diets”, *Journal of Animal Science*, 96(9): 3670-3683

21. E. Perry, **T.-W. L. Cross**, J. M. Francis, H. D. Holscher, S. D. Clark, K. S. Swanson (2018) “Effect of road transport on the equine cecal microbiota”, *Journal of Equine Veterinary Science*, 68 (2018): 12–20
22. **T.-W. L. Cross**, T. Zidon, R. J. Welly, Y.-M. Park, S. L. Britton, L. G. Koch, G. E. Rottinghaus, M. R. C. de Godoy, J. Padilla, K. S. Swanson, V. J. Vieira-Potter (2017) “Soy improves cardiometabolic health and cecal microbiota in female low-fit rats”, *Scientific Reports*, 7:9261
23. E. Perry, N. Gulson, **T.-W. L. Cross**, and K. S. Swanson (2017) “Physiological effects of stress related to helicopter travel in Federal Emergency Management Agency search-and-rescue canines”, *Journal of Nutritional Science*, 6(e28):1-5
24. C. Yazici, P. G. Wolf, Hajwa Kim, **T.-W. L. Cross**, K. Vermillion, T. Carroll, E. Mutlu, L. Tussing-Humphreys, R. M. Xicola, B. Jung, X. Llor, N.A. Ellis, H. R. Gaskins (2017) “Race-dependent association of sulfidogenic bacteria with colorectal cancer”, *Gut*, DOI: 10.1136/gutjnl-2016-313321
25. E. Venable, K. Fenton, V. Braner, C. Reddington, M. Halpin, S. Heitz, J. Francis, N. Gulson, C. Goyer, S. Bland, **T.-W. L. Cross**, H. D. Holscher, and K. S. Swanson (2017) “Effects of meal size and frequency on the equine cecal microbiota”, *Journal of Equine Veterinary Science*, 49 (2017): 1–9
26. L. Ma\*, **T.-W. Liu\***, M. A. Wallig, I. T. Dobrucka, W. L. Dobrucki, E. R. Nelson, K. S. Swanson, A. M. Smith (2016) “Efficient targeting of adipose tissue macrophages in obesity”, *American Chemical Society Nano*, 10(7): 6952–6962 \***Authors contributed equally to this work**
27. R. J. Welly, **T.-W. Liu**, T. Zidon, J. Rowles, Y.-M. Park, T. N. Smith, K. S. Swanson, J. Padilla, V. J. Vieira-Potter (2016) “Comparison of diet vs. exercise on cardiometabolism and gut microbiota in obese rats”, *Medicine & Science in Sports & Exercise*, 48(9):1688-98
28. **T.-W. Liu**, K. D. Cephas, H. D. Holscher, K. R. Kerr, H. F. Mangian, K. A. Tappenden, and K. S. Swanson (2016) “Nondigestible fructans alter gastrointestinal barrier function, gene expression, histomorphology, and the microbiota profiles of diet-induced obese C57BL/6J mice”, *Journal of Nutrition*, 146: 949–56
29. **T.-W. Liu**, Y.-M. Park, H. D. Holscher, J. Padilla, R. J. Scroggins, R. Welly, S. L. Britton, L. G. Koch, V. J. Vieira-Potter, K. S. Swanson (2015) “Physical activity differentially affects the cecal microbiome of ovariectomized female rats selectively bred for high and low aerobic capacity”, *PLOS ONE*, 10(8):e0136150. DOI: 10.1371/journal.pone.0136150
30. **T.-W. Liu**, T. D. Heden, E. M. Morris, K. L. Fritsche, V. J. Vieira-Potter, J. P. Thyfault (2015) “High-fat diet alters serum fatty acid profiles in obesity prone rats: implications for *in-vitro* studies”, *Lipids*, 50(10): 997-1008
31. E. M. Morris, M. R. Jackman, G. C. Johnson, **T.-W. Liu**, J. L. Lopez, M. L. Kearney, J. A. Fletcher, G. M. E. Meers, L. G. Koch, S. L. Britton, R. S. Rector, J. A. Ibdah, P. S. MacLean, J. P. Thyfault (2014) “Intrinsic aerobic capacity impacts susceptibility to acute high-fat diet-induced hepatic steatosis”, *American Journal of Physiology, Endocrinology and Metabolism*, 307(4): E355-64
32. P. E. Verslues, J. R. Lasky, T. Juenger, **T.-W. Liu**, R. Kesari, and M. N. Kumar (2014) “Genome wide association mapping combined with reverse genetics identifies new effectors of low water potential-induced proline accumulation in *Arabidopsis thaliana*”, *Plant Physiology*, 164(1): 144-159
33. T. D. Heden, E. M. Morris, M. L. Kearney, **T.-W. Liu**, Y.-M. Park, J. A. Kanaley, J. P. Thyfault (2013) “Differential effects of low-fat and high-fat diets on fed state hepatic triacylglycerol secretion, hepatic fatty acid profiles, and DGAT-1 protein expression in obese prone Sprague-Dawley rats”, *Applied Physiology, Nutrition, and Metabolism*, 10.1139/apnm-2013-0410

34. R. Kesari, J. R. Lasky, J. G. Villamora, D. L. Des Marais, Y.-J. C. Chen, **T.-W. Liu**, W. Lin, T. E. Juenger, and P. E. Verslues (2012) "Intron-mediated alternative splicing of *Arabidopsis* P5CS1 and its association with natural variation in proline and climate adaptation", *PNAS*, 109(23): 9197-9202
35. K. J. Nickelson, K. L. Stromsdorfer, R. T. Pickering, **T.-W. Liu**, L. C. Ortinou, A. F. Keating, and J. W. Perfield II (2012) "A comparison of inflammatory and oxidative stress markers in adipose tissue from weight-matched obese male and female mice", *Experimental Diabetes Research*, 2012; 859395

**Google scholar page:** <https://scholar.google.com/citations?user=hNGeh9AAAAAJ&hl=en>

#### ***Manuscripts in Submission or Preparation***

1. L. M. Leonard, M. Choi, **T.-W. L. Cross**, "Maximizing the estrogenic potential of soy isoflavones through the gut microbiome: implication for metabolic and endocrine health in postmenopausal women" (*in preparation*)
2. **T.-W. L. Cross**, E. R. Nelson, B. R. Loman, A. P. Bhatt, M. A. Wallig, C.-Y. Lin, S. J. Pellock, M. R. Redinbo, F. E. Rey, K. S. Swanson, "Ovariectomy-associated gut microbiome induces inflammation and metabolic dysfunction" (*in preparation*)
3. **T.-W. L. Cross**, S. Devkota, K. S. Swanson, V. J. Vieira-Potter, J. Padilla, "Tauroursodeoxycholic acid alleviates hepatic steatosis, inflammation and alters cecal microbiota of obese mice" (*in preparation*)

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#### **HONORS AND AWARDS**

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##### ***Professional Honors***

- 2017, James L. Robinson Nutrition Impact Award, University of Illinois
- 2016, The College of ACES and Paul A. Funk Recognition: Graduate Student Research Award (Ph.D.), University of Illinois
- 2016, David H. Baker Nutrition Scholar Award, University of Illinois
- 2014, Pinnacle Award, International Ingredients Corporation (IIC)
- 2012, Charlene Scanland-Evert Graduate Research Scholarship, University of Missouri

##### ***Research and Travel Awards***

- 2020, Ralph W. and Grace M. Showalter Research Trust Award, \$75,000.00
- 2017, Emerging Leader Poster Presentation Competition-3<sup>rd</sup> place, Experimental Biology, American Society of Nutrition, \$200.00
- 2016, Margin of Excellence Student Travel Award, University of Illinois, \$400.00
- 2014, Margin of Excellence Student Travel Award, University of Illinois, \$400.00
- 2013, Margin of Excellence Student Travel Award, University of Illinois, \$400.00
- 2013, Student Travel Award, WALTHAM International Nutritional Sciences Symposium, \$500.00
- 2013, Food for the 21st Century (F21C) Travel Award, University of Missouri, \$1000.00

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#### **INVITED TALKS & POSTER PRESENTATIONS**

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- 2021, Western Indiana Academy of Nutrition (WIAND) Meeting, Virtual
- 2021, Purdue Asian American & Asian Resource and Cultural Center (AAARCC) Lunch & Learn, West Lafayette, IN
- 2019, Kern Lipid Conference, Vail, CO
- 2017, Cardiovascular Center at the University of Wisconsin-Madison, Madison, WI
- 2017, Experimental Biology, Chicago, IL

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## Tzu-Wen L. Cross, PhD

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2016, Keystone Symposia: Gut Microbiota, Metabolic Disorders and Beyond, Newport, RI  
2016, International Human Microbiome Consortium, Houston, TX  
2016, Individualizing Medicine Conference, Rochester, MN  
2015, Taipei Medical University, Taipei, Taiwan  
2015, Experimental Biology, Boston, MA  
2014, Beneficial Microbes of American Society of Microbiology, Washington, DC  
2013, Experimental Biology, Boston, MA

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### RESEARCH EXPERIENCE

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#### *Clinical & Basic Science Experience*

- **2013-2016, Graduate Research Assistant**  
Animal Sciences and Nutritional Sciences, University of Illinois, Urbana, IL, USA
- **2011-2013, Graduate Research Assistant**  
Department of Nutrition and Exercise Physiology, University of Missouri, Columbia, MO, USA
- **2010-2011, Research Assistant**  
Institute of Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan
- **2009-2010, Research Assistant**  
School of Nutrition and Health Sciences, Taipei Medical University, Taipei, Taiwan

#### *Industry-based Experience*

- **2014, Doctoral Intern**  
Pet Care, Procter & Gamble, OH, USA

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### CLINICAL EXPERIENCE

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**2009-2011, Registered Dietitian** (Part-time), Ogilvy Marketing Company, Taipei, Taiwan  
**2009-2010, Registered Dietitian** (Part-time), Weight Management Center, Taipei, Taiwan  
**2008, Dietetic Internship**, Tri-Service General Hospital, Taipei, Taiwan

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### TEACHING EXPERIENCE

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- **2021, 2022, Instructor**, Purdue University  
Macronutrient Metabolism in Health and Disease (*Advanced level undergraduate course*)
- **2021, Instructor**, Purdue University  
Essentials of Nutrition (*Introductory level undergraduate course*)
- **2021, Invited Guest Lecturer**, Purdue University  
Nutrition in the 21st Century (*Introductory level undergraduate course*)
- **2018, Invited Guest Lecturer**, University of Wisconsin-Madison  
*Microbiome and probiotics: from genomics to function* (*Advanced level graduate course*)
- **2017, Instructor**, University of Illinois at Urbana-Champaign  
*Workshop for 16S rRNA microbial analysis*
- **2015-2016, Graduate Teaching Assistant**, University of Illinois at Urbana-Champaign  
*Companion Animal Nutrition* (*Advanced level graduate/undergraduate course*)
- **2012-2013, Graduate Teaching Assistant**, University of Missouri-Columbia  
*Nutrition, Current Concepts and Controversies* (*Introductory level undergraduate course*)

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### PROFESSIONAL & LEADERSHIP SERVICE

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**Journal Review Editor:** Frontiers in Nutrition - Nutritional Immunology, 2020-present

#### **Ad hoc reviewer**

Gut • Science Advances • Cell Reports • Scientific Reports • Journal of Nutrition • Research Reviews • Current Developments in Nutrition • PLoS ONE • Food & Function • Medicine &

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## Tzu-Wen L. Cross, PhD

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Science in Sports & Exercise • Journal of Applied Physiology • Journal of Functional Foods •  
Journal of Complementary Medicine Research • Obesity • FEMS Microbiology Ecology •  
Hormone and Metabolic Research • Frontiers in Physiology • Current Opinion in Biotechnology  
**Co-Chair** • Energy and Macronutrient Metabolism Mini-Symposium: Metabolic Phenotyping,  
Metabolomics and Biomarkers • Experimental Biology, American Society of Nutrition • 2017  
**Chair** • Nutritional Sciences Graduate Students Association (NSGSA) • 2015-2016  
University of Illinois at Urbana-Champaign  
**Co-Chair** • Nutritional Sciences Graduate Students Association (NSGSA) • 2014-2015  
University of Illinois at Urbana-Champaign  
**Graduate Student Representative** • Energy and Macronutrient Metabolism Research Interest  
Section Advisory Committee • Experimental Biology, American Society of Nutrition • 2013-2014  
**Treasurer** • Health Science Graduate Students Association (HSGSA) • 2012-2013  
University of Missouri-Columbia

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### PROFESSIONAL AFFILIATIONS

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**American Heart Association** • 2018-present  
**American Society of Microbiology** • 2014-present  
**American Society of Animal Science** • 2013-present  
**The Obesity Society** • 2013-2017  
**American Society for Nutrition** • 2012-present

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### ABSTRACTS (\*, denotes presenter)

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1. A. Clapp Organski, **T.-W. L. Cross** (2021) “Gut microbiome regulation of the reproductive axis”, Women’s Health Symposium, Purdue University
2. A. Goldbaum, **T.-W. L. Cross**, L. Bowers (2021) “Determining the role of the gut microbiota in the obesity-colorectal cancer link”, American Institute for Cancer Research Annual Meeting, virtual
3. D. J. Spina, A. Biruete, J. M. Allen, **T.-W. L. Cross**, M. Snelson, C. Vorland, B. Kistler (2021) “Animal husbandry reporting in rodent studies of the gut microbiome published in kidney research journals”, American Society of Nephrology 2021
4. A. Biruete, **T.-W. L. Cross**, S. Srinivasan, K. O’Neill, J. de Loor, P. Evenepoel, N. X. Chen, K. S. Swanson, S. M. Moe (2021) “The intraperitoneal calcimimetic KP-2326 alters the gut microbiota in a rat model of CKD-MBD”, Kidney Week, virtual
5. A. Goldbaum, S. Bultman, **T.-W. L. Cross**, L. Bowers (2019) “Determining the role of pro-inflammatory gut microbial dysbiosis in the obesity-colon cancer link”, American Association for Cancer Research Annual Meeting, Atlanta, GA, USA
6. K. Kasahara\*, **T.-W. L. Cross**, E. I. Vivas, F. E. Rey (2019) “Protective Effects of Flavonoids on Atherosclerosis Depend on Dietary Fiber and Gut Microbial Colonization”, oral presentation at the American Heart Association Scientific Sessions, Philadelphia, PA, USA
7. M. G. Sublette, **T.-W. L. Cross**, C. E. Korcarz, K. M. Hansen, M. K. Oguss, F. E. Rey, J. H. Stein (2019) “Effects of smoking cessation on the intestinal microbiota”, oral presentation at the American Heart Association Scientific Session, Philadelphia, PA, USA
8. H. Deng\*, C. J. Konopka, **T.-W. L. Cross**, K. S. Swanson, L. W. Dobrucki, A. M. Smith (2019) “Macrophage-targeted imaging probes with optical and nuclear contrast”, Biomedical Engineering Society (BMES) Annual Meeting, Philadelphia, PA, USA
9. **T.-W. L. Cross\***, E. R. Hutchison, J. S. Coulthurst, F. E. Rey (2019) “A partnership in the making: metabolic phenotype determined by the combination of dietary fiber and the gut microbiome”, oral presentation at Experimental Biology, Baltimore, MD, USA

10. A. M. Smith\*, L. Ma, H. Deng, K. S. Swanson, **T.-W. L. Cross** (2017) “Therapeutic targeting of pro-inflammatory macrophages”, oral presentation at International Conference on Materials for Advanced Technologies 2017, Suntec, Singapore
11. **T.-W. Liu\***, E. R. Nelson, M. A. Wallig, A. P. Bhatt, S. J. Pellock, C.-Y. Lin, M. R. Redinbo, K. S. Swanson (2017) “Diet differentially impacts gastrointestinal integrity, fecal  $\beta$ -glucuronidase activity, and longitudinal fecal microbial communities of C57BL/6J mice in response to ovariectomy-induced obesity”, oral presentation at Experimental Biology, Chicago, IL, USA
12. A. Biruete\*, B. Kistler, **T.-W. L. Cross**, J. Allen, H de Loor, P. Evenepoel, K. S. Swanson, K. Wilund (2017) “Effect of inulin supplementation on the gut microbiota and derived metabolites in hemodialysis patients”, 2017 Kidney Week, New Orleans, LA, USA
13. H. Lee\*, **T.-W. L. Cross**, A. N. Beloshapka, M. R. C. de Godoy, G. C. Fahey, Jr. K. S. Swanson (2017) “Bioprocessed soy protein influences the fecal microbiota of healthy adult beagles”, National American Society of Animal Sciences Joint Annual Meeting, Baltimore, MD, USA
14. K. M. Algya\*, **T.-W. L. Cross**, A. Lee, L. Lye, M. R. C. de Godoy, and K. S. Swanson (2017) “Fecal microbiota and metabolites of adult dogs fed commercial extruded, mildly cooked, and raw diets”, National American Society of Animal Sciences Joint Annual Meeting, Baltimore, MD, USA
15. C.-Y. Lin\*, **T.-W. L. Cross**, and Kelly S. Swanson (2017) “Gastrointestinal mucosal microbiota of young adult and geriatric dogs fed animal- or plant-based diets”, National American Society of Animal Sciences Joint Annual Meeting, Baltimore, MD, USA
16. K. M. Algya\*, **T.-W. L. Cross**, K. N. Leuck, M. E. Kastner, T. Baba, L. Lye, M. R. C. de Godoy, and K. S. Swanson (2017) “Nutrient digestibility, fecal characteristics, serum chemistry, and urinalysis of adult dogs fed extruded, mildly cooked, and raw diets”, American Academy of Veterinary Nutrition Annual Symposium, National Harbor, MD, USA
17. P. G. Wolf\*, C. Yazici, H. Kim, **T.-W. Liu**, T. Carroll, G. J. Augustus, E. Mutlu, L. Tussing-Humphreys, C. Braunschweig, R. M. Xicola, B. Jung, X. Llor, N. A. Ellis, H. R. Gaskins (2017) “Race-dependent association of sulfidogenic bacteria with colorectal cancer”, oral presentation at Experimental Biology, Chicago, IL, USA
18. **T.-W. Liu\***, E. R. Nelson, B. R. Loman, K. S. Swanson (2016) “Diet differentially impacts adiposity and the cecal microbiota of ovariectomized versus intact mice”, International Human Microbiome Consortium, Houston, TX, USA
19. **T.-W. Liu\***, L. Ma, N. M. Hottmann, M. A. Wallig, A. M. Smith, K. S. Swanson (2016) “Dose optimization of a dextran-conjugated prodrug to suppress inflammatory status in obesity”, Individualizing Medicine Conference, Rochester, MN, USA
20. L. Ma\*, **T.-W. Liu**, K. S. Swanson, A. M. Smith (2016) “Translational nanomaterials for efficient targeting of adipose tissue macrophages in obesity”, oral presentation at Biomedical Engineering Society (BMES) Annual Meeting, Minneapolis, MN, USA
21. E. Venable\*, K. Fenton, V. Braner, C. Reddington, M. Halpin, S. Heitz, J. Francis, N. Gulson, C. Goyer, S. Bland, H. Holscher, **T.-W. Liu**, K. S. Swanson (2016) “Effects of meal size and frequency on the equine cecal microbiota”, oral presentation at American Society of Animal Science Joint Annual Meeting, Salt Lake City, UT, USA
22. **T.-W. Liu\***, T. M. Zidon, R. J. Welly, Y.-M. Park, S. L. Britton, L. G. Koch, J. Padilla, V. J. Vieira-Potter, K. S. Swanson (2016) “Soy positively impacts cecal microbiota of ovariectomized rats selectively bred for low aerobic capacity”, The FASEB Journal. 2016;30;146.1, oral presentation at Experimental Biology, San Diego, CA, USA

23. C. Yazici\*, P. G. Wolf, **T.-W. Liu**, K. Vermillion, T. Carroll, E. Mutlu, L. Tussing-Humphreys, R. M. Xicola, C. Braunschweig, R. M. Xicola, B. Jung, X. Llor, N.A. Ellis, H. R. Gaskins (2016) “Sulfidogenic bacteria are an important diet-driven exposure promoting colorectal cancer in African Americans”, Ninth AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and Medically Underserved, Fort Lauderdale, FL, USA
24. E. Venable\*, N. Gulson, **T.-W. Liu**, K. S. Swanson (2016) “Physiological effects of stress related to helicopter travel in FEMA search and rescue canines”, WALTHAM International Nutritional Sciences Symposium, Chicago, IL, USA
25. **T.-W. Liu**\*, K. S. Swanson, V. J. Vieira-Potter, J. Padilla (2016) “Administration of tauroursodeoxycholic acid alleviates hepatic steatosis, inflammation and alters cecal microbiota in obese mice”, poster presentation at Keystone Symposia: Gut Microbiota, Metabolic Disorders and Beyond, Newport, RI, USA
26. L. Mailing\*, J. Allen, **T.-W. Liu**, T. Bhattacharya, P. Park, B. Pence, J. Rodney, G. Fahey, K. Swanson, J. Rhodes, J. Woods (2016) “Pectin Feeding for 16 Weeks Improves Learning and Memory in Young C57BL/6J Mice: A Relationship to the Gut Microbiota?”, poster presentation at Experimental Biology, San Diego, CA, USA
27. **T.-W. Liu**\*, H. D. Holscher, K. D. Cephas, K. R. Kerr, H. F. Mangian, K. A. Tappenden, K. S. Swanson (2015) “Prebiotics impact fecal microbiota and gut physiology in diet-induced obese mice”, The FASEB Journal. 2015;29:385.1, oral presentation at Experimental Biology, Boston, MA, USA
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