

Chenghao Zhu

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Education

University of California, Davis 2014 – 2019
 Ph.D. in Nutritional Biology
 Thesis Title: Effects of short-term diet on HDL and gut microbiome composition and function
 Supervisor: Angela M. Zivkovic, PhD

University of California, Davis 2011 – 2013
 M.S. in Food Science and Technology
 Thesis Title: Studies On Factors Affecting the Dynamics of Food-based Carotenoid Interventions
 Supervisor: Betty J. Burry, PhD

Zhejiang University 2008 – 2012
 B.S. in Applied Biological Science

Postdoctoral Training

University of California, Los Angeles 2020 – 2025
 Department of Human Genetics, David Geffen School of Medicine
 Cancer Data Science, Jonsson Comprehensive Cancer Center, UCLA Health
 Supervisor: Paul C. Boutros, PhD, MBA

University of California, Davis 2019 – 2020
 Department of Nutrition
 Supervisor: Angela M. Zivkovic, PhD

Research Goal

My research leverages data-driven approaches to expand the actionable knowledge of human health. I use proteogenomics to elucidate the complexity of cancer immunity, trace tumor evolution, and dissect host-microbiome interactions, aiming for better treatments such as neoantigen-based immunotherapies and antibody-drug conjugates.

Professional Experience

Research Assistant Professor April 2026 – Present
Cancer Genome and Epigenetics Program, NCI-Designated Cancer Center, Sanford Burnham Prebys Medical Discovery Institute, La Jolla, CA, USA
Center for Data Science and Artificial Intelligence, Sanford Burnham Prebys Medical Discovery Institute, La Jolla, CA, USA

- **Cancer Proteogenomics:** Lead large-scale proteogenomic studies to characterize molecular heterogeneity across cancer types and identify clinically relevant biomarkers, therapeutic targets, and mechanisms of disease progression.

- **Computational Proteogenomics:** Develop computational methods and open-source software for proteomic and proteogenomic data analysis, including workflows for non-canonical peptide discovery, protein inference, and scalable multi-omics data processing.
- **Proteogenomics in Aging:** Investigate aging-associated molecular alterations through proteogenomic and multi-omics analyses, including studies of age-related changes in the proteome and their implications for immunity, disease mechanisms, and therapeutic development.

Postdoctoral Fellow**August 2020 – August 2025***Department of Human Genetics, University of California, Los Angeles**Cancer Data Science, Jonsson Comprehensive Cancer Center, UCLA Health*

Supervisor: Paul C. Boutros, PhD, MBA

- **Proteogenomics Algorithm Development:** Developed [moPepGen](#), a graph-based algorithm for non-canonical peptide calling for detection in proteomics data, integrating various genomic variation events (e.g., SNV, indel, gene fusion, alternative splicing, RNA editing and circRNA). Published on *Nature Biotechnology*.
- **Proteomic and Genomic Pipeline Development:** Created a series of proteomic data processing pipelines using Nextflow, optimized for HPC and scalable for large clinical studies. Developed and contributed to more than 10 genomic data processing pipelines using Nextflow. Initialized the Boutros lab meta-pipelines for DNA-seq (WGS/WXS) and RNA-seq. Initialized a pipeline unit testing framework NTest.
- **Boutros Lab Infra Team:** As a member of the Boutros Lab infra team, contributed significantly to the establishment of software infrastructure, including pipeline standards, CI/CD, and development cycle. Led the Dataset Standardization working group to organize and standardize the sequencing and reference datasets in the Boutros Lab.

Postdoctoral Fellow**August 2019 – July 2020***Department of Nutrition, University of California, Davis*

Supervisor: Angela M. Zivkovic, PhD

- **exRNA Pipeline Development:** Developed a data processing pipeline using Snakemake to identify and quantify circulating extracellular RNAs, including endogenous (e.g., lncRNA and miRNA) and exogenous (e.g., bacteria and fungi) RNAs.
- **Software Development:** Developed R packages (e.g., HTSet) for analyzing, manipulating and visualizing quantitative high-throughput experiments (e.g., proteomics, lipidomics, and metabolomics).

Graduate Student Researcher**January 2015 – June 2019***Department of Nutrition, University of California, Davis*

Supervisor: Angela M. Zivkovic, PhD

- **Short-Term Dietary Impact on HDL and Microbiome:** Conducted a human study comparing the effects of a short-term (4-day) fast-food diet versus a Mediterranean diet on the HDL lipidome, glycoproteome, anti-inflammatory function, metabolome, and microbiome.
- **Egg Consumption and HDL and Microbiome:** Conducted a human study assessing the impact of chicken egg consumption versus yolk-free substitutes on HDL composition (lipidome and proteome), function, host metabolome, and gut microbiome in postmenopausal women.
- **HDL Glycoproteome in Alzheimer's Disease:** Analyzed data from a pilot study investigating HDL glycoproteome and function in Alzheimer's disease patients.

Biological Science Technician & Research Assistant**April 2012 – December 2014**USDA-ARS – *Western Human Nutrition Research Center, Davis, CA*

Supervisor: Betty J. Burri, PhD

- **Carotenoid Metabolism in Biofortified Gari:** Conducted a human study assessing the postprandial response to Gari, a traditional African cassava food, made specifically from biofortified varieties containing carotenoids, focusing on its effects in the triacylglycerol-rich lipoprotein (TRL) fraction of plasma in human participants.
- **Beta-Cryptoxanthin Absorption in Animal Models:** Assessed the absorption, dose response and tissue distribution of the provitamin A carotenoid beta-cryptoxanthin in Mongolian gerbils, a relevant animal model for human carotenoid metabolism.
- **Processing Effects on Carotenoid Bioaccessibility:** Analyzed effects of various traditional African processing and cooking methods on beta-carotene and cyanide concentrations and carotenoid bioaccessibility in beta-carotene-biofortified cassava.
- **Laboratory Management and Training:** Managed the laboratory and provided training on safety protocols and essential techniques, including plasma and tissue extraction and HPLC analysis.

Software Development

- **moPepGen** (<https://github.com/TheBoutrosLab/package-moPepGen>): Graph-based algorithm for generating non-canonical peptides for detection in proteomic data, supporting a variety of genomic (e.g., SNV and indel) and transcriptomic events (alternative splicing, transcript fusion, RNA editing, and circRNA)
- **NFTest** (<https://github.com/uclahs-cds/tool-nftest>): Automated unit-test framework for Nextflow pipelines.
- **DNA metapipeline** (<https://github.com/uclahs-cds/metapipeline-DNA>): Nextflow pipeline to process DNA-seq (WGS/WXS) data, including DNA alignment and recalibration, calling for germline SNPs and SVs, somatic SNVs and SVs, copy number aberrations, mitochondrial SNVs, and performing subclonal constructions.
- **HTSet** (<https://github.com/zhuchcn/htset>): R package to store, manipulate, analyze, and visualize quantitative high-throughput experiment data.

Teaching & Mentoring

Teaching Assistant**January 2015–December 2018**

Course	Quarters	Department (UC Davis)
Introduction to Biology	8 quarters	Department of Microbiology
Structure and Function of Biomolecules	1 quarter	Department of Molecular and Cellular Biology
Current Topics and Controversies in Nutrition	2 quarters	Department of Nutrition
Experimental Nutrition	1 quarter	Department of Nutrition
General Chemistry	2 quarters	Department of Chemistry

Mentoring

Mentee	Year	Role	Current Position
Yimeng Cai	2013-2014	Master Student, UC Davis	Postdoctoral Fellow, UC Davis
Xinge Ding	2015-2016	Undergraduate Student, UC Davis	Registered Dietitian, NGO
Xinyu Tang	2019-2020	PhD Student, UC Davis	Postdoctoral Fellow, UCSF

Nicole Zeltser	2020	Rotation PhD Student, UCLA	PhD Candidate, UCLA
Siddharth Mahesh	2022	Undergraduate Student, UCLA	PhD Student, UCSF
Ali Mobedi	2022	Undergraduate Student, UCLA	Research Assistant, Stanford Univ.
Yuhan Lin	2025-2026	Undergraduate Student, UCLA	PhD Student, Sanford Burnham Prebys
Aastha Aastha	2025-2026	PhD Student, UCLA	PhD Student, University of Toronto

Confernece Presentations

- **Zhu C**, Liu LY, Ha A, Yamaguchi TN, Zhu H, Hugh-White R, Livingstone J, Patel Y, Kislinger T, & Boutros PC. Identification of non-canonical peptides with moPepGen. UCLA Jonsson Comprehensive Cancer Center Symposium, 2026, Los Angeles, CA.
- **Zhu C**, Yang LY, Kislinger T, Boutros PC. moPepGen: Rapid and Comprehensive Elucidation of Novel Proteogenomic Peptides. Los Angeles Metropolitan Mass Spectrometry Discussion Group, 2024, Los Angeles, CA.
- **Zhu C**, Yang LY, Kislinger T, Boutros PC. Fast and Comprehensive Custom Database Generation for Proteogenomics with moPepGen. Asia Oceania Human Proteome Organisation Congress, 2023, Singapore.
- **Zhu C**, Yang LY, Kislinger T, Boutros PC. Fast and Comprehensive Custom Database Generation for Proteogenomics with moPepGen. International Conference on Bioinformatics and Computational Biology, 2023, Hangzhou
- Gonzalez AE, Patel Y, **Zhu C**, Yamaguchi TN, Tian M, Hiyari S, Shihabi AA, Eng S, Winata H, Arbert J, Beshlikyan A, Davarifar A, Soragni A, Boutros PC. Snapshot! Exploring sample diversity of sarcoma cancers across common data repositories. American Association for Cancer Research Annual Meeting, 2023, Orlando, FL.
- Hong B, Rhodes C, Agus J, Tang X, **Zhu C**, Zivkovic AM. A 36 h Water-Only Fast Profoundly Alters the Plasma Lipidome Consistent With Benefits on Cardiometabolic Health. American Society for Nutrition Annual Meeting, 2023, Boston, MA.
- Agus J, Lebrilla C, Rhodes C, Tang X, Wong M, **Zhu C**, Zivkovic AM. Prolonged Fasting Alters the Size, Function, and Glycoproteomic Profile of HDL Particles. American Society for Nutrition Annual Meeting, 2022, Orlando, FL.
- Hong B, **Zhu C**, Wong M, Sacchi R, Rhodes C, Kang JW, Arnold C, Adu-Afarwuah S, Lartey A, Oaks B, Dewey K, Lebrilla C, Zivkovic AM. Maternal and Child Supplementation With Small-Quantity Lipid-Based Nutrient Supplements Increases Child HDL Cholesterol Efflux Capacity. American Society for Nutrition Annual Meeting, 2021, Live Online.
- Kang JW, **Zhu C**, Rhodes C, Houts H, Zheng J, Hong B, Tang X, Munoz O, Agus J, Zivkovic AM. Novel Fiber Formulation Does Not Alter Cardiometabolic Profiles in Overweight Participants Consuming Low-Fiber Diets, American Society for Nutrition Annual Meeting, 2020, Live Online.
- **Zhu C**, Zhang R, Zivkovic AM. Metabase: A New Programming Framework for Analyzing, Visualizing, and Integrating Multi-Omics Data for Nutritional Intervention Studies. Experimental Biology, 2019, Orlando, FL.
- **Zhu C**, Sawrey-Kubicek L, Bardagjy AS, et al. Whole egg consumption increases plasma choline and betaine without affecting TMAO levels and gut microbiome in overweight postmenopausal woman. Experimental Biology, 2019, Orlando, FL.
- **Zhu C**, Sawrey-Kubicek L, Beals E, Rhodes CH, Houts HE, Sacchi R, Zivkovic AM. Fast food vs. Mediterranean diet rapidly and differentially change human gut microbiome composition and function in healthy subjects. American Society for Nutrition Annual Meeting, 2018, Boston, MA

- **Zhu C**, Sawrey-Kubicek L, Beals E, Hughes RL, Rhodes CH, Sacchi R, Zivkovic AM. Short Term Fast Food and Mediterranean Diet are able to Change the HDL lipidome with Different Patterns, Experimental Biology, 2017, Chicago, IL
- Sawrey-Kubicek L, **Zhu C**, Stevens A, Randolph J, Sacchi R, Steinberg FM, Zivkovic AM. Whole egg increases high density lipoprotein-cholesterol (HDL-C) levels in overweight postmenopausal women. Experimental Biology, 2017, Chicago, IL.
- **Zhu C**, Sacchi R, Rhodes CH, Tan B, Muchena JK, Lebrilla CB, Zivkovic AM. Comparison of Preparative High Density Lipoprotein Separation Methods for Subsequent Omic Analysis, Experimental Biology, 2016, San Diego, CA
- **Zhu C**, Sacchi R, Rhodes CH, Tan B, Muchena JK, Lebrilla CB, Zivkovic AM. Comparison of ultracentrifugation and chemical precipitation methods for preparative high density lipoprotein separation, OCC World Congress - Redox Medicine and Nutrition, 2016, Davis, CA
- **Zhu C**, La Frano MR, Cai Y, Burri BJ. Impact of traditional African processing and cooking methods on cyanide and β -carotene concentrations in biofortified cassava (*Manihot esculenta*), American Chemistry Society National Meeting, 2014, San Francisco, CA.
- Burri BJ, **Zhu C**, Katz J, Tso J, La Frano MR. Assessing the Potential of Biofortified Cassava for Improving Indices of Vitamin A Status: Update on Human Studies. American Society for Chemistry National Meeting, 2014, San Francisco, CA.
- La Frano MR, **Zhu C**, Burri BJ. Effects of processing, cooking, and storage on β -carotene retention and bioaccessibility in biofortified cassava (*Manihot esculenta*). Experimental Biology, 2014, San Diego, CA.

Invited Talks and Seminars

- Quantifying the Hidden Cancer Proteome: From Discovery to Clinical Translation. Shanghai Jiaotong University, Shanghai, China, October 2025. **Invited seminar.**
- Quantifying the Clinical and Translational Relevance of the Hidden Cancer Proteome. Bonham Laboratory, Tufts University, Boston, MA, July 2025. **Invited seminar.**
- Quantifying the Clinical and Translational Relevance of the Hidden Cancer Proteome. UCLA Boyer Parvin Award Seminar, Los Angeles, CA, May 2025. **Invited seminar**
- Illuminating the Dark Proteome Through Proteogenomics. Center for Precision Health, UT Health Houston, March 2025. **Invited seminar.**
- Unveiling the Hidden Proteome: Comprehensive Non-Canonical Peptide Identification from Proteogenomics with moPepGen. BioLinkX Seminar, Zhejiang University, Hangzhou, China, October 2024. **Invited seminar.**
- moPepGen: Rapid and Comprehensive Identification of Non-canonical Peptides. UCLA Proteomic Core, Los Angeles, CA, September 2024. **Invited seminar.**
- moPepGen: A Graph Based Algorithm for Non-canonical Peptide Calling to Accelerate Proteogenomic Analysis. UCLA QCBio, Los Angeles, April 2022. **Invited seminar.**
- Sex Differences in Cancer Genome and Proteome. UC Davis Graduate Group of Nutritional Biology, Davis, CA, May 2021. **Invited seminar.**

Awards

- QCBio Postdoctoral Excellence Award, UCLA, 2025
- Boyer/Parvin Postdoctoral Award, Molecular Biology Institute, UCLA, 2025

- JCCC Postdoctoral Fellowship Award, Jonsson Comprehensive Cancer Center, UCLA, 2024 (\$30,000)
- Best Oral Presentation Award, ICBCB, Hangzhou, China, 2023
- David Kritchevsky Graduate Student Award, *Nutrition Research*, 2019
- Mar Dissertation Year Fellowship Award, graduate group of nutritional biology, Department of Nutrition, UC Davis, 2019. (\$25,000)
- Carpenter Travel Award, Department of Nutrition, UC Davis, 2017 & 2018
- Jastro-Shields Award, UC Davis, 2016 & 2017 (\$6,000)
- Graduate Group of Nutritional Biology Progress Award, UC Davis, 2015

Journal Peer-Review Activities

<i>Journal</i>	<i>Type</i>	<i>Dates</i>
<i>Journal of Proteome Research</i>	Ad hoc	09/2023, 11/2023, 11/2023, 12/2023, 05/2023, 07/2023, 05/2024, 07/2024, 07/2024, 10/2025, 08/2026
<i>Cancer Research</i>	Ad hoc	09/2023, 01/2024, 01/2024, 03/2024, 03/2024, 03/2024, 03/2025
<i>Nature Communications</i>	Ad hoc	10/2023, 11/2024, 03/2025, 10/2025
<i>European Urology</i>	Ad hoc	05/2026, 07/2026, 07/2026
<i>Genome Research</i>	Ad hoc	05/2026
<i>Lipids in Health and Disease</i>	Ad hoc	01/2026
<i>Scientific Data</i>	Ad hoc	09/2023
<i>Blood Advances</i>	Ad hoc	08/2023
<i>The Computational and Structural Biotechnology Journal</i>	Ad hoc	06/2025
<i>Nutrients</i>	Ad hoc	06/2020

Peer-Reviewed Research Publications

*: Co-first author

- **Zhu C**, Zeltser N, Oh J, Li CH, & Boutros PC (2026). Sex Differences in the Cancer Proteome. *BMJ Oncolog.* (PMID: 40166173)
- **Zhu C***, Liu LY*, Ha A, Yamaguchi TN, Zhu H, Hugh-White R, Livingstone J, Patel Y, Kislinger T, & Boutros PC (2026). Identification of non-canonical peptides with moPepGen. *Nature Biotechnology.* (PMID: 40523945)
- Patel Y*, **Zhu C***, Yamaguchi TN*, Wang N, Wiltsie N, Gonzalez A, Winata H, Zeltser N, Pan Y, Mootor MFE, Sanders T, Kandoth C, Fitz-Gibbon ST, Livingstone J, Liu LY, Carlin B, Holmes A, Oh J, Sahrman J, Tao S, Eng S, Hugh-White R, Pashminehazar K, Park A, Beshlikyan A, Jordan M, Wu S, Tian M, Arbet J, Neilsen B, Bugh YZ, Kim G, Salmingo J, Zhang W, Haas R, Anand A, Hwang E, Neiman-Golden A, Steinberg P, Zhao W, Anand P, Tsai BL, & Boutros PC (2026). Metapipeline-DNA: A Comprehensive Germline & Somatic Genomics Nextflow Pipeline. *Cell Reports Methods.* (PMID: 41850291)
- Agus JK, Herrera OMM, Rhodes CH, Zheng JJ, **Zhu C**, Wong M, Tang X, Maezawa I, Jin L-W, Lebrilla CB, Harvey DJ, & Zivkovic AM (2025). HDL from 36-h fasted participants potently promotes efflux of cholesteryl ester from activated microglia. *Frontiers in Aging Neuroscience.*
- Jones LW, Lavery JA, Tsai B, Moskowitz CS, Lee CP, Harrison Jenna, Michalski M, Stoeckel KJ, Graham C, Iyengar NM, Bhanot UK, Linkov Irina, Jain M, Jochelson MS, Monetti M, Seewaldt VL, Pilewskie M, Pribil P, **Zhu C**, Arbet J, Mangino DA, Boutros PC (2024). A Co-Clinical Trial of Exercise Therapy in Breast Cancer Prevention. *Clin Cancer Res* (PMID: 40184238)

- Haas R, Frame G, Khan S, Neilsen BK, Hong BH, Yeo CPX, Yamaguchi TN, Ong EHW, Zhao W, Carlin B, Yeo ELL, Tan KM, Bugh YZ, **Zhu C**, Hugh-White R, Livingstone J, Poon DJJ, Chu PL, Patel Y, Tao S, Ignatchenko V, Kurganovs NJ, Higgins GS, Downes MR, Loblaw A, Vesprini D, Kishan AU, Chua MLK, Kislinger T, Boutros PC, & Liu SK (2024). The Proteogenomics of Prostate Cancer Radioresistance. *Cancer Research Communications*. (PMID: 39166898)
- Patel Y*, **Zhu C***, Yamaguchi TN, Bugh YZ, Tian M, Holmes A, Fitz-Gibbon ST, & Boutros PC (2024). NfTest: Automated testing of Nextflow pipelines. *Bioinformatics*, 40(2), btae081. (PMID: 38341660)
- Rhodes CH, **Zhu C**, Agus J, Tang X, Li Q, Engebrecht J, & Zivkovic AM (2023). Human fasting modulates macrophage function and upregulates multiple bioactive metabolites that extend lifespan in *Caenorhabditis elegans*: A pilot clinical study. *The American Journal of Clinical Nutrition*, 117(2), 286–297. (PMID: 36811567)
- Hong BV, Rhodes CH, Agus JK, Tang X, **Zhu C**, Zheng JJ, & Zivkovic AM (2023). A single 36-h water-only fast vastly remodels the plasma lipidome. *Frontiers in Cardiovascular Medicine*, 10, 1251122. (PMID: 37745091)
- Tatari N, Khan S, Livingstone J, Zhai K, McKenna D, Ignatchenko V, Chokshi C, Gwynne WD, Singh M, Revill S, Mikolajewicz N, **Zhu C**, Chan J, Hawkins C, Lu JQ, Provias JP, Ask K, Morrissey S, Brown S, Weiss T, Weller M, Han H, Greenspoon JN, Moffat J, Venugopal C, Boutros PC, Singh SK, & Kislinger T (2022). The proteomic landscape of glioblastoma recurrence reveals novel and targetable immunoregulatory drivers. *Acta Neuropathologica*, 144(6), 1127–1142. (PMID: 36178522)
- Wang X, Jordahl KM, **Zhu C**, Livingstone J, Rhie SK, Wright JL, Grady WM, Boutros PC, Stanford JL, & Dai JY (2022). Methylation Subtypes of Primary Prostate Cancer Predict Poor Prognosis. *Cancer Epidemiology, Biomarkers & Prevention*, 31(7), 1473–1482. (PMID: 35437583)
- Tena J, Maezawa I, Barboza M, Wong M, **Zhu C**, Alvarez MR, Jin LW, Zivkovic AM, & Lebrilla CB (2022). Regio-Specific N-Glycome and N-Glycoproteome Map of the Elderly Human Brain With and Without Alzheimer's Disease. *Molecular & Cellular Proteomics*, 21(11), 100427. (PMID: 36252735)
- **Zhu C**, & Boutros PC (2021). Sex Differences in Cancer Genomes: Much Learned, More Unknown. *Endocrinology*, 162(11), bqab170. (PMID: 34402895)
- Zheng JJ, Agus JK, Hong BV, Tang X, Rhodes CH, Houts HE, **Zhu C**, Kang JW, Wong M, Xie Y, Lebrilla CB, Mallick E, Witwer KW, & Zivkovic AM (2021). Isolation of HDL by sequential flotation ultracentrifugation followed by size exclusion chromatography reveals size-based enrichment of HDL-associated proteins. *Scientific Reports*, 11(1), 16086. (PMID: 34373542)
- Hong BV, **Zhu C**, Wong M, Sacchi R, Rhodes CH, Kang JW, Arnold CD, Adu-Afarwuah S, Lartey A, Oaks BM, Lebrilla CB, Dewey KG, & Zivkovic AM (2021). Lipid-Based Nutrient Supplementation Increases High-Density Lipoprotein (HDL) Cholesterol Efflux Capacity and Is Associated with Changes in the HDL Glycoproteome in Children. *ACS Omega*, 6(47), 32022–32031. (PMID: 34870025)
- **Zhu C**, Sawrey-Kubicek L, Beals E, Rhodes CH, Houts HE, Sacchi R, & Zivkovic AM (2020). Human gut microbiome composition and tryptophan metabolites were changed differently by fast food and Mediterranean diet in 4 days: A pilot study. *Nutrition Research*, 77, 62–72. (PMID: 32330749)
- **Zhu C**, Sawrey-Kubicek L, Bardagjy AS, Houts H, Tang X, Sacchi R, Randolph JM, Steinberg FM, & Zivkovic AM (2020). Whole egg consumption increases plasma choline and betaine without affecting TMAO levels or gut microbiome in overweight postmenopausal women. *Nutrition Research*, 78, 36–41. (PMID: 32464420)
- **Zhu C**, Wong M, Li Q, Sawrey-Kubicek L, Beals E, Rhodes CH, Sacchi R, Lebrilla CB, & Zivkovic AM (2019). Site-Specific Glycoproteomes of HDL-Associated ApoE are Correlated with HDL Functional Capacity and Unaffected by Short-Term Diet. *Journal of Proteome Research*, 18(11), 3977–3984. (PMID: 31545048)

- **Zhu C**, Sawrey-Kubicek L, Beals E, Hughes RL, Rhodes CH, Sacchi R, & Zivkovic AM (2019). The HDL lipidome is widely remodeled by fast food versus Mediterranean diet in 4 days. *Metabolomics*, 15(8), 114. (PMID: 314224861)
- Sawrey-Kubicek L, **Zhu C**, Bardagjy AS, Rhodes CH, Sacchi R, Randolph JM, Steinberg FM, & Zivkovic AM (2019). Whole egg consumption compared with yolk-free egg increases the cholesterol efflux capacity of high-density lipoproteins in overweight, postmenopausal women. *The American Journal of Clinical Nutrition*, 110(3), 617–627. (PMID: 31172172)
- Kailemia MJ, Wei W, Nguyen K, Beals E, Sawrey-Kubicek L, Rhodes C, **Zhu C**, Sacchi R, Zivkovic AM, & Lebrilla CB (2018). Targeted Measurements of O- and N-Glycopeptides Show That Proteins in High Density Lipoprotein Particles Are Enriched with Specific Glycosylation Compared to Plasma. *Journal of Proteome Research*, 17(2), 834–845. (PMID: 29212317)
- **Zhu C**, Gertz ER, Cai Y, & Burri BJ (2016). Consumption of canned citrus fruit meals increases human plasma β -cryptoxanthin concentration, whereas lycopene and β -carotene concentrations did not change in healthy adults. *Nutrition Research*, 36(7), 679–688. (PMID: 27333959)
- Burri BJ, La Frano MR, & **Zhu C** (2016). Absorption, metabolism, and functions of β -cryptoxanthin. *Nutrition Reviews*, 74(2), 69–82. (PMID: 26747887)
- **Zhu C**, Cai Y, Gertz ER, La Frano MR, Burnett DJ, & Burri BJ (2015). Red palm oil-supplemented and biofortified cassava gari increase the carotenoid and retinyl palmitate concentrations of triacylglycerol-rich plasma in women. *Nutrition Research*, 35(11), 965–974. (PMID: 26319612)
- Frano ML, **Zhu C**, & Burri BJ (2015). Effects of Processing, Cooking, and Storage on β -carotene Retention and Bioaccessibility in Biofortified Cassava (*Manihot esculenta*). *European Journal of Nutrition & Food Safety*, 390–391.
- La Frano MR, **Zhu C**, & Burri BJ (2014). Assessment of tissue distribution and concentration of β -cryptoxanthin in response to varying amounts of dietary β -cryptoxanthin in the Mongolian gerbil. *The British Journal of Nutrition*, 111(6), 968–978 (PMID: 24229567)