CARRIE L. JENKINS, Ph.D.

Arizona State University
School of Human Evolution and Social Change
Center for Evolution and Medicine

Email: Carrie.Jenkins@asu.edu
Phone: 480-727-1582

Professional Experience:

2023 - Present	Faculty, Research Scientist (Asst.) Arizona State University
2022 - 2023	Research Specialist Sr., Lab Manager Arizona State University
2021 - 2022	Quality Assurance Scientist, CARIS Life Sciences
2020 - 2021	Research Technician (Postdoctoral), Arizona State University

Education:

2021 ARIZONA STATE UNIVERSITY
Doctor of Philosophy, Molecular and Cellular Biology

2013 MIDWESTERN UNIVERSITY
Master of Biomedical Sciences

2000 ARIZONA STATE UNIVERSITY
Bachelor of Science, Microbiology
•Summa Cum Laude •Phi Beta Kappa

Peer-Reviewed Publications: h-index = 5, i10-index = 3, Citations 161 ORCiD: 0000-0002-2235-2360

B. C. Trumble, M. Schwartz, A. T. Ozga, G. T. Schwartz, C. M. Stojanowski, **C. L. Jenkins**, T. S. Kraft, A. R. Garcia, D. K. Cummings, P. L. Hooper, D. Eid Rodriguez, K. Buetow, B. Beheim, A. Irimia, G. S. Thomas, R. C. Thompson, HORUS Team, M. Gatz, J. Stieglitz, C. E. Finch, M. Gurven, H. Kaplan. Poor oral health is associated with inflammation, aortic valve calcification, and brain volume among forager-farmers. *Gerontology Series A*.

C. L. Jenkins, H. D. Bean, Current Limitations of Staph Infection Diagnostics, and the Role for VOCs in Achieving Culture-Independent Detection. Pathogens 12, 181 (2023).

C. L. Jenkins, H. D. Bean, Influence of media on the differentiation of Staphylococcus spp. by volatile compounds. Journal of breath research 14, 016007 (2020).

C. L. Jenkins, H. D. Bean, Dependence of the Staphylococcal Volatilome Composition on Microbial Nutrition. Metabolites 10, 347 (2020).

E. A. H. Keppler, **C. L. Jenkins**, T. J. Davis, H. D. Bean, Advances in the application of comprehensive two-dimensional gas chromatography in metabolomics. Trends in analytical chemistry: TRAC 109, 275-286 (2018).

Conference Abstracts (°undergrad, † grad student, * postdoc)

***** Aronoff, Jacob E; **Jenkins, Carrie L.**; Garcia, Angela R.; Beheim, Bret A.; Rodriguez, Daniel E.; Cummings, Daniel K.; Kraft, Thomas S.; Hooper, Paul L.; Buetow, Kenneth; Finch, Caleb E.; Steiglitz, Jonathan; Gurven, Michael D.; Kaplan, Hillard; Trumble, Benjamin C. Inflammaging among the Tsimane and Moseten of lowland Bolivia. 2024 Annual Meeting of the Human Biology Association.

† Balasubramanian, Sophia; Kraft, Thomas S.; Aronoff, Jacob; **Jenkins, Carrie L.**; Bogen, Desirée; Rodriguez, Daniel Eid; Beheim, Bret; Cummings, Daniel K.; Hooper, Paul; Buetow, Kenneth; Finch, Caleb E.; Thomas, Gregory S.; Irimia, Andrei; Gatz, Margaret; Stieglitz, Jonathan; Gurven, Michael D.; Kaplan, Hillard; Trumble, Benjamin C. Nutrition and cognitive function in Amazonian horticulturalists. 2024 Annual Meeting of the Human Biology Association.

Outreach:

Oct 2023 Homecoming Family and Friends Event: DNA extraction from Bananas
ARIZONA STATE UNIVERSITY, School of Human Evolution and Social Change, Center for Evolution and Medicine – Tempe, AZ

Academic Experience:

2017 – 2020 Ph.D. Candidate, Graduate Research Assistant
ARIZONA STATE UNIVERSITY, Biodesign Institute – Tempe, AZ
Heather D. Bean Laboratory
Biodesign Center for Fundamental and Applied Microbiomics
Biodesign Center for Immunotherapy, Vaccines, and Virotherapy
Doctoral Dissertation:
Influence of Media on Breath Biomarker Development for Staphylococcal Infections

2014 – 2017 Ph.D. Candidate, Graduate Research Assistant, Graduate Teaching Assistant
ARIZONA STATE UNIVERSITY, School of Life Sciences – Tempe, AZ
David G. Capco Laboratory
Molecular & Cellular Biology
Comprehensive Examination Thesis:
Stem Cell Differentiation and Notch Protein Signaling In an Intestinal Epithelial Model System

2011 – 2013 Master of Biomedical Sciences Candidate
MIDWESTERN UNIVERSITY
Gerald B. Call Laboratory
Molecular & Cellular Biology
College of Graduate Studies – Glendale, AZ

Teaching Experience:

2017 Fall, Teaching Assistant: MIC 302 Advanced Bacteriology
2017 Spring, Teaching Assistant: MBB 491 Molecular Biosciences & Biotechnology
2016 Fall, Teaching Assistant: BIO 353 Cell Biology
2016 Summer, Teaching Assistant: BIO 353 Cell Biology
2016, Spring, Teaching Assistant: BIO 451 Cell Biotechnology Laboratory Course
2015 Fall, Teaching Assistant: BIO 353 Cell Biology
2015 Summer, Teaching Assistant: BIO 353 Cell Biology
2015 Spring, Teaching Assistant: BIO 451 Cell Biotechnology Laboratory Course
2014 Fall, Teaching Assistant: BIO 353 Cell Biology
2003 Fall, Teaching Assistant: Biology for Science Majors I & II
2004 Spring, Teaching Assistant: Biology for Science Majors I & II
2004 Fall, Teaching Assistant: General Genetics
2005 Spring, Teaching Assistant, Biology for Science Majors I & II
2005 Fall, Teaching Assistant: General Genetics
2006 Spring, Teaching Assistant, Biology for Science Majors I & II
2006 Summer, Lab Coordinator: Biology for Science Majors

Teaching Interests:

Medical Microbiology	The Human Microbiome
Host-Pathogen Interactions	Emerging Infectious Disease
Immunology	Molecular Mimicry & Autoimmunity
Infectious Diseases	Virology