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School of Animal and Comparative Biomedical Sciences
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CHRONOLOGY OF EDUCATION

2007 **Ph.D. Pathobiology**, Department of Veterinary Science and Microbiology, The University of Arizona, Tucson, AZ. Dissertation: Necrotic enteritis in broiler chickens: studies in disease reproduction and pathogenesis. Advisor: J. Glenn Songer
1998 **B.S. Biology**, Sterling College, Sterling, KS

CHRONOLOGY OF EMPLOYMENT

2025 – Spring 2026 **Director, Graduate Studies**, School of Animal and Comparative Biomedical Sciences, University of Arizona
2024 – Spring 2025 **Associate Professor**, School of Animal and Comparative Biomedical Sciences, University of Arizona
2024 – Spring 2025 **Associate Professor**, Joint Appointment Department of Environmental Science, University of Arizona
2017 – Spring 2025 **Affiliated Faculty**, BIO5 Institute, University of Arizona
2017- 2024 **Assistant Professor**, School of Animal and Comparative Biomedical Sciences, University of Arizona
2013-2017 **Assistant Professor**, Department of Biology, California State University, Northridge
2011-2013 **Postdoctoral Research Associate**, with Dr. Michelle Carter, Produce Safety and Microbiology, Agricultural Research Service, United States Department of Agriculture
2011-2007 **Postdoctoral Research Associate**, with Dr. Lynn Joens, Department of Veterinary Science and Microbiology, The University of Arizona
2001-2007 **Graduate Research and Teaching Assistant**, Department of Veterinary Science and Microbiology, The University of Arizona
1998-2001 **Environmental Health Director**, Navajo County Health Department, Holbrook, AZ

HONORS AND AWARDS

(Limited to period in current rank.)

2025 Outstanding Team in Research Award, Agriculture, Life and Veterinary Sciences and Cooperative Extension Division, University of Arizona
2022 Research Faculty of the Year, School of Animal and Comparative Biomedical Sciences, University of Arizona

SERVICE AND OUTREACH

(Limited to period in current rank.)

Local/State Outreach

2025	Invited speaker , Yuma Grower Workshop, Yuma Safe Produce Council, Yuma, AZ
2025 – Spring 2026	Member , Arizona Pathogen Union
2024 – Spring 2026	Member , Arizona Pathogen Genomics Analytics Platform (APGAP), Governance Board
2023 – Spring 2026	Grant Proposal Reviewer , One Health Initiative, University of Arizona
2023	Invited speaker , Arizona Foodborne Task Force, Arizona Department of Health Services
2023 - 2024	Advisor/Laboratory Service , Pima county outbreak of <i>Streptococcus zooepidemicus</i> in dogs, Pima County Health Department and Pima Animal Care Center
2023	Reviewer , Biosafety Protocols, California State University, Northridge
2022 - 2023	Organizer , How do you “Genome” Workshop Series, Yuma Safe Produce Council, Yuma, AZ
2021 - 2024	Member , Yuma Longitudinal Study Advisory Panel, Food and Drug Administration, Yuma, AZ
2021	Invited speaker , Research Meeting, Yuma Safe Produce Council, Yuma, AZ
2020	Invited speaker , Arizona Project WET training of high school teachers in molecular biology techniques
2020	Participating lab , CALS lab tour for high school seniors interested in agriculture including animal and human health
2019	Panel member , Breaking down scientific silos: using One Health to address the world’s wicked problems. TENWEST Impact Festival, Tucson, AZ

National Service and Outreach

2024 – Spring 2026	Member , Desert Food Safety Coalition
2022	Panelist , Mock Whole Genome Sequencing Produce Safety Call, CDC, FDA, and United Fresh
2020	Grant Proposal Reviewer , United States Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA), Rapid response to novel coronavirus (SARS- CoV-2) impacts across food and agriculture systems.
2018	Invited Speaker and Participant , Taco Bell Suppliers Meeting, Irvine, CA. (April)
2018	Invited Speaker and Participant , YUM! Brands Produce Industry Meeting, Monterey, CA. (July)
2017	Invited Speaker and Participant , YUM! Brands Produce Industry Meeting, Monterey, CA. (July)

International Service and Outreach

2025 – Spring 2026	Associate Director , Global Health Emerging Scholars, University of Arizona Section
2024	Chair , Technical Session 5 – Laboratory and Detection Methods and Molecular Analytics, Genomics, and Microbiome, International Food Protection Association Annual Meeting, Long Beach, CA (July)
2024	Mentor , Student Travel Scholarship Winner, International Food Protection

	Association Annual Meeting, Long Beach, CA (July)
2023 – Spring 2026	Associate Editor , Microbial Genomics
2022 – Spring 2025	Invited Panel Reviewer , Food Products Section, US-Israel Binational Agricultural Research and Development (BARD) Fund
2023	Chair , Technical Session 13 – Pre-harvest Food and Safety Section, International Food Protection Association Annual Meeting, Toronto, Canada (July)
2023	Grant Proposal Reviewer , Wellcome Discovery Award Section, Wellcome Trust
2022	Organizer/Speaker , Indo-US Workshop on Molecular Epidemiology of Infectious Diseases, JSS Academy of Higher Education and Research, Mysore, India
2022 – Spring 2023	Associate Editor , Frontiers in Cellular and Infection Microbiology
2021 – Spring 2024	Organizer/Trainer , Genomics Methods of Acute Febrile Disease Pathogens, Asociacion Benefica Prisma, Loreto, Peru
2020 - 2023	Associate Editor , Agronomy Journal
2020	Grant Proposal Reviewer , Medical Research Council, Infection and Immunity Section, United Kingdom Research and Innovation
2020 - 2021	Guest Editor , Special Issue of Pathogens, Understanding the roles of bacterial foodborne pathogens in global food safety
2019	Grant Proposal Reviewer , US-Israel Binational Agricultural Research and Development (BARD) Fund
2019	Chair , Technical Session 12 – Molecular analytics, genomics and microbiome and epidemiology section, International Food Protection Association Annual Meeting, Louisville, KY (July)
2018	Grant Proposal Reviewer , Gates Foundation, Grand Challenges
<i>Campylobacter</i>	
2017 - Spring 2026	Ad hoc reviewer : BMC Microbiology, Scientific Reports, Journal of Microbiological Methods, Vaccine, Gut Microbes, F1000 Research, PLoS One, Microorganisms, PLoS Neglected Tropical Diseases, Frontiers in Cellular and Infection Microbiology, Frontiers in Microbiology, International Journal of Molecular Sciences, Environmental Science & Technology, eLife, Microbial Genomics, BMC Biology, Current Opinion in Biotechnology, Applied and Environmental Microbiology Virulence, Glycobiology, ISME Journal, Food Reviews International, and Journal of Infection
2017	Grant Proposal Reviewer , Canadian Poultry Research Council (CPRC)

Memberships in Professional Societies

2022 – Spring 2026	Member , Microbiology Society (United Kingdom)
2014 – Spring 2026	Member , International Association for Food Protection (IAFP)
2014 – Spring 2026	Member , American Association for the Advancement of Science (AAAS)
2001 – Spring 2026	Member , American Society of Microbiology (ASM)

Departmental Committees

2024 – Spring 2025	Member , ACBS APR Guidelines Committee
2023 – Spring 2024	Chair , Curriculum Committee
2022	Member , Microbiology Professor of Practice Hiring Committee
2021 – Spring 2026	Member , Microbiology Graduate Committee
2019	Co-chair , Meat Science/Safety Position Hiring Committee
2018 – Spring 2024	Member , Curriculum Committee
2018 – Spring 2026	Member , Food Safety Undergraduate Degree Program Committee

College of Agriculture and Life Sciences Committees

2024 – November 2025 **Member**, CALES Faculty Council
 2023 – Spring 2024 **Member**, Food Safety Specialist Hiring Committee
 2019 - 2020 **Member**, Applied Biotechnology Major Planning Committee.
 2017 – Spring 2024 **Member**, Food Safety Consortium.
 2017 – Spring 2024 **Chair**, Food Safety Consortium Research Subcommittee.
 2017 – Spring 2024 **Member**, Food Safety Consortium Internship/Education Subcommittee.

University of Arizona Committees

2025 – Spring 2026 **Member**, India Advisory Network
 2023 – Spring 2026 **Member**, One Health Initiative Advisory Committee
 2022 – Spring 2024 **Member**, Undergraduate Research Task Force
 2021 **Member**, RII Biomedical Grant Specialist Position Hiring Committee
 2018 – Spring 2023 **Member**, Technical Review Committee, The University of Arizona Water Resources Research Center.
 2018- 2022 **Co-Director**, The University of Arizona One Health Consortium.
 2017- 2022 **Member**, The University of Arizona One Health Consortium.

TEACHING, ADVISING, AND MENTORSHIP

Teaching

Fall 2025: *Molecular Microbiology* (MIC 350): 3-unit, upper division course, 51 students.
Fall 2025: *Veterinary Microbiology* (MIC 450/550): 3-unit, upper division/graduate level course, 21 students.
Fall 2025: *Independent Study* (ACBS 399): 2-unit, upper division course, 1 student.
Fall 2025: *Honors Thesis* (ACBS 498H): 3-unit, upper division course, 1 student
Fall 2025: *Senior Capstone* (BIOC 498): 3-unit, upper division course, 1 student
Fall 2025: *Independent Study* (MCB 199): 1-unit, lower division course, 1 student
Fall 2025: *Directed Research* (MCB 392): 1-unit, upper division course, 1 student
Spring 2025: *Directed Research* (MCB 392): 3-unit, upper division course, 1 student.
Fall 2024: *Directed Research* (MIC 492): 3-unit, upper division course, 1 student.
Fall 2024: *Veterinary Microbiology* (MIC 450): 3-unit, upper division course, 30 students.
Fall 2024: *Molecular Microbiology* (MIC 350): 3-unit, upper division course, 66 students.
Spring 2024: *Independent Study* (MIC 599): 3-unit, upper division course, 1 student.
Spring 2024: *Honors Thesis* (ACBS 498H): 3-unit, upper division course, 2 students.
Spring 2024: *Directed Research* (ACBS 492): 3-unit, upper division course, 1 student.
Fall 2023: *Molecular Microbiology* (MIC 350): 3-unit, upper division course, 45 students.
Fall 2023: *Veterinary Microbiology* (MIC 450/550): 3-unit, upper division/graduate level course, 21 students.
Fall 2023: *Honors Thesis* (MIC 498H): 3-unit, upper division course, 2 students.
Fall 2023: *Independent Study* (MIC 599): 3-unit, graduate level course, 1 student.
Spring 2023: *Honors Thesis* (MIC 498H): 3-unit, upper division course, 1 student.
Spring 2023: *Directed Research* (ACBS 492): 3-unit, upper division course, 1 student.
Fall 2022: *Directed Research* (ACBS 492): 3-unit, upper division course, 1 student.
Fall 2022: *Honors Thesis* (MIC 498H): 3-unit, upper division course, 1 student.
Fall 2022: *Molecular Microbiology* (MIC 350): 3-unit, upper division course, 51 students.
Fall 2022: *Veterinary Microbiology* (MIC 450/550): 3-unit, upper division/graduate level course, 28 students.
Spring 2022: *Independent Study* (MIC 599): 3-unit, graduate level course, 1 student.

Spring 2022: *Honors Thesis* (ACBS 498H): 3-unit, upper division course, 1 student.
Fall 2021: *Microbes in Society* (MIC 204): 3-unit, lower division course (co-taught), 12 students.
Fall 2021: *Honors Thesis* (PSIO 498H): 3-unit, upper division course, 1 student.
Fall 2021: *Veterinary Microbiology* (MIC 450/550): 3-unit, upper division/graduate level course, 28 students.
Fall 2021: *Independent Study* (ACBS 599): 3-unit, graduate level course, 1 student.
Fall 2021: *Honors Thesis* (ACBS 498H): 3-unit, upper division course, 1 student.
Fall 2021: *Directed Research* (ACBS 492): 3-unit, upper division course, 3 students.
Summer 2021: *Independent Study* (MIC 599): 3-unit, graduate level course, 1 student.
Spring 2021: *Directed Research* (MIC 392): 3-unit, upper division course, 1 student.
Spring 2021: *Independent Study* (MIC 499): 3-unit, upper division course, 2 students.
Spring 2021: *Honors Thesis* (PSIO 498H): 3-unit, upper division course, 1 student.
Spring 2021: *Careers in Microbiology* (MIC 195G): 1-unit, freshman level course, 9 students.
Fall 2020: *Internship in Applied Biosciences* (ABS 593A): 3-unit, graduate level course, 1 student.
Fall 2020: *Independent Study* (MIC 499): 3-unit, upper division course, 1 student.
Fall 2020: *Veterinary Microbiology* (MIC 450/550): 3-unit, upper division/graduate level course (online), 12 students.
Fall 2020: *Veterinary Microbiology* (MIC 450/550): 3-unit, upper division/graduate level course (hybrid), 10 students.
Summer 2020: *Internship in Applied Biosciences* (ABS 593A): 3-unit, graduate level course, 1 student.
Spring 2020: *Directed Research* (ACBS 492): 3-unit, upper division course, 1 student.
Spring 2020: *Independent Study* (ACBS 499): 3-unit, upper division course, 1 student.
Spring 2020: *Honors Independent Study* (ACBS 499H): 3-unit, upper division course, 1 student.
Spring 2020: *Careers in Microbiology* (MIC 195G): 1-unit, freshman level course, 7 students.
Fall 2019: *Directed Research* (ACBS 492): 3-unit, upper division course, 1 student.
Fall 2019: *Honors Independent Study* (ACBS 499H): 3-unit, upper division course, 1 student.
Fall 2019: *Veterinary Microbiology* (MIC 450/550): 3-unit, upper division/graduate level course, 14 students.
Spring 2019: *Independent Study* (ACBS 399): 3-unit, upper division course, 1 student.
Spring 2019: *Careers in Microbiology* (MIC 195G): 1-unit, freshman level course, 15 students.
Fall 2018: *Veterinary Microbiology* (MIC 450/550): 3-unit, upper division/graduate level course, 9 students.

Advising

Faculty

UAHS Career Development Award Mentor

Erika Austhof, Assistant Research Professor, Public Health, Spring 2025 – present

Postdoctoral Fellows

Jared Smith, Microbiology, Spring 2025 - present

Graduate students

Major advisor (currently 2 students)

Dominic Rodriguez, PhD student, Microbiology, Spring 2026 - present

Caroline Scranton, PhD student, Microbiology, 2023 – present

Loujine Salib, MS student, Microbiology, 2026 – present

Victoria Brechbiel, Accelerated MS student, Microbiology, 2026 - present
Dominic Rodriguez, MS student, Microbiology, 2023 – 2025
Urmi Patel, Accelerated MS student, Microbiology, 2023 – 2024
Charlene Aparicio, MS student, Microbiology, 2021 – 2024
Amanda Leckband, MS student, Microbiology, 2021 – 2023
Madison Goforth, Accelerated MS student, Microbiology, 2021 – 2023
Jennifer Mydosh, PhD student, Microbiology, 2020 – Spring 2025

Graduate committee service (currently 8 students)

Desmond Traynor, MS student, Biosystems Engineering, Spring 2026 - present
Yva Luc, PhD student, Environmental Health, Summer 2026 - present
Luis Alegria, PhD student, Microbiology, Spring 2025 - present
Simran Singh, PhD student, Environmental Sciences, Spring 2025 - present
Alyssa Rosenbaum, PhD student, Environmental Sciences, Spring 2025 - present
Priscilla Valenzuela, PhD student, Public Health, 2024 - present
Yunuen Fernandez, PhD student, Public Health, 2024 - present
Victor Okpanachi, MS student, Public Health, 2024 – 2025
Khai Troung, MS student, Microbiology, 2024 – 2025
Allison Sullivan, PhD student, Microbiology, 2023 - present
Richard Park, PhD student, Microbiology, 2023 - 2026
Zoe Scott, MS student, Environmental Sciences, 2021 - 2022
Cesily Cirerol, MS student, Microbiology, 2022 - 2025
Katrien De Belder, MS student, Microbiology, 2020 - 2021
Timothy Chan, MS student, Public Health, 2020 - 2021
Valerisa Joe, PhD student, Environmental Sciences, 2019 - 2020
Anusha Harishankar, PhD student, Microbiology, 2019 – 2024

American Public Health Laboratory Fellowship Mentor

Hailey Gavigan, APHL Fellow, Fall 2025 - present

Graduate internships (2 students at The University of Arizona)

Priscilla Valenzuela, MS student, One Health, 2019
Shelby Verhyen, MS student, Applied Biosciences, 2019
Rashmeet Chandhok, MS student, One Health, 2026

Medical student research internships (2 students at the University of Arizona)

Jacob Robishaw-Denton, Medical student, 2021 – 2025
Jordan Gotwalt, Medical student, 2022 – 2024

College of Veterinary Medicine

Gem Osborne, Veterinary Medicine student, Fall 2025 - present
Mitchell Baker, Veterinary Medicine student, 2024

Undergraduate students

Honors advisor

Diego Servin, Veterinary Science, “Gut Microbiome Variation in Tucson Cats: Assessing *Salmonella* Prevalence and Public Health Implications”, Spring 2025 - present

Viola Rintoul, Microbiology, “Investigation of *invA* Gene in *Salmonella* Detection”, 2024 – 2025.

Aaike Dergance, Veterinary Science, “Characterizing the Gut Microbiome Shifts of Dogs Due to Housing in Animal Shelter”, 2023 – 2024.

Gennavive Bordeaux, Veterinary Science, “Investigating Environmental Survival of *Streptococcus zooepidemicus* in an Animal Shelter”, 2023 – 2024.

Amy Pennington, Veterinary Science, “Assessing Antimicrobial Effects of Various Endophytic Fungal Strains”, 2022 – 2023.

Claudia Pham, Physiology and Medical Sciences, “Impact of Different Physiological Compounds on the Virulence of *Campylobacter jejuni*”, 2021 – 2022.

Lauren Salsburg, Veterinary Science, “Investigating the Effects of Trazodone on the Gut Microbiome of Shelter Dogs”, 2020 – 2022.

NIH MARC Students

Samantha Miranda, Microbiology, 2026 - present

Independent study or directed research advisor

Neha Nerkar, Animal Sciences, Fall 2025 – present

McKinley Pasiakos, PSIO, Fall 2025 - Present

Taylor Brown, MCB, Fall 2025 – Spring 2025

Audrey Winkle, MCB, Spring 2025.

Jarret Muirheid, Microbiology, 2024.

Dustin Loso, Microbiology, 2022 – 2024.

Caroline Scranton, Microbiology, 2021.

Urmi Patel, Microbiology, 2021.

Nikhil Nayee, Microbiology, 2021.

Cassidy Heiner, Microbiology, 2021.

Maya Boyle, Veterinary Science, 2021.

Charlene Aparicio, Microbiology, 2020 – 2021.

Madison Goforth, Microbiology, 2019 – 2020.

Francisco Duarte, Veterinary Science, 2019 – 2020.

Celia LaCross, Microbiology, 2018 – 2019.

Laboratory volunteers

Srushti Tangirala (NEURO), Laboratory volunteer, 2026 – present.

Diya Setia (PSIO), Laboratory volunteer, 2026 – present.

Sofia Annibale (MIC), Laboratory volunteer, 2026 – present.

Christopher Haddad (MIC), Laboratory volunteer, 2026 – present.

Wyatt Davis (MIC), Laboratory volunteer, 2026 – present.

Ella Van Wiel (MCB), Laboratory volunteer, 2025 – present.

Emily Scranton (BME), Laboratory volunteer, 2024 – present.

Christina Pham (MIC), Laboratory volunteer, 2025 – 2026.

Tracy Tabarangao (MIC), Laboratory volunteer, 2025 – 2026.

Lexi Tusing (MIC), Laboratory volunteer, 2025 – 2026.

Xiaorui Zheng (BINF), Laboratory volunteer, 2025 – 2026.
Carmen Contreras (MIC), Laboratory volunteer, 2025 – 2026.
Bailey Arnell (MIC), Laboratory volunteer, 2024 – 2025
Malachi Hartsock (MIC), Laboratory volunteer, 2024 – 2025.
Taylor Brown (MCB), Laboratory volunteer, 2024 – 2026.
Jessica Tozer (MIC), Laboratory volunteer, 2023 – 2024.
Vivvyanna Flores (MIC), Laboratory volunteer, 2023 – 2024.
Holland Ryberg (VSC), Laboratory volunteer, 2022 – 2024.
Hazel White (MIC), Laboratory volunteer, 2022 – 2023.
Audrey Winkle (MCB), Laboratory volunteer, 2022 – 2026.
Aaibe Dergance (VSC), Laboratory volunteer, 2022 – 2024.
Josh Their (VSC), Laboratory volunteer, 2021 – 2023.
Madison Cook (BIO), Laboratory volunteer, 2020 – 2022.
Andrew Aguilera (MIC), Laboratory volunteer, 2020.
Natasha George (VSC), Laboratory volunteer, 2019 – 2021.
Christian Sutherlin (MIC), Laboratory volunteer, 2019 – 2020.
Kiley Doherty (BIO), Laboratory volunteer, 2019 – 2020.
Jacqueline Johnson (MIC), Laboratory volunteer, 2018 – 2019.
Jasmine Acosta (MIC), Laboratory volunteer, 2018 – 2019.
Brycen Lauer (MIC), Laboratory volunteer, 2018 – 2019.

PUBLICATIONS (PUBLISHED OR ACCEPTED)

Citations: 2,285; Research h-index: 22; i10-index: 40

Publications since time in rank: 18

Refereed journal articles

1. Schiaffino F, Parker CT, Romaina Cachique L, Garcia Bardales PF, Liu J, Peñataro Yori P, **Cooper KK**, Pascoe B, Pavlinac P, Houpt E, Paredes Olortegui M, Kosek MN. Robust performance of culture, real-time PCR, and genomic approaches for *Shigella* serotyping in a pediatric surveillance cohort. 2026. Aug 26;20(8):e0014668. DOI: 10.1371/journal.pntd.0014668.
2. Truong K, Suarez M, Durigan M, Ewing-Peeples L, Jenkins MC, Kilungo A, Cooper MA, **Cooper KK**, Lopez GU. Optimization of the Mit1C real-time PCR assay using Bio-Rad CFX96 for the detection of *Cyclospora cayetanensis* in agricultural waters. 2026. *PLoS One*. Aug 12;21(8):e0355957. DOI: 10.1371/journal.pone.0355957.
3. Park R, Rowlands D, Zhu L, Obergh V, Porchas M, Brierley P, Crosby K, Friedman M, Turini T, Patil B, **Cooper KK**, Ravishankar S. Prevalence of foodborne pathogens and indicator microorganisms on Arizona and California grown commercial cantaloupe melons and in environmental samples. 2026. *Food Microbiol*. Aug;137:105023. DOI: 10.1016/j.fm.2025.105023.
4. Romaina Cachique L, Schiaffino F, Paredes Olortegui M, Manzanares K, Pinedo Vasquez T, Castro A, Najjarro J, **Cooper KK**, Mourkas E, Pascoe B, Peñataro Yori P, Parker CT, Kosek MN. Phenotypic resistance of *Campylobacter* isolates to an extended panel of antibiotics. 2026. *Am J Trop Med Hyg*. Jul 30;tmpd260268. DOI: 10.4269/ajtmh.26-0268.
5. Paredes Olortegui M, Schiaffino F, Peñataro Yori P, Colston JM, Mourkas E, Shapiama Lopez WV, Pinedo Vasquez TN, Garcia Bardales PF, Flynn TG, Ramal-Asayag C, Hughes HR, Davis E, Russell BJ, Brault AC, Alegre Palomino YA, Munayco CV, Liu J, Houpt E, Pascoe B, **Cooper KK**, Parker CT, Kosek MN. Genomic epidemiology of a 2023-2024 Oropouche virus disease outbreak in Iquitos, Peru: descriptive analysis of a case control study for acute febrile illness. 2026. *Lancet Reg*

- Health Am.* Feb 19;56:101413. DOI: 10.1016/j.lana.2026.101413.
6. Parker CT, Kathariou S, Miller WG, Huynh S, Pascoe B, **Cooper KK**. American black bear (*Ursus americanus*) as a potential host for *Campylobacter jejuni*. 2025. *PLoS One*. Sept 9; 20(9):e0331559. DOI: 10.1371/journal.pone.0331559.
 7. Bosquez JM, Parker CT, Pascoe B, **Cooper KK**. Growth rates and metabolic traits differ by diarrhoeal manifestation in *Campylobacter jejuni* strains. 2025. *J Med Microbiol*. Aug; 74(8):002053. DOI: 10.1099/jmm.0.002053.
 8. Kumar NR, Balraj TA, **Cooper KK**, Prashant A. 2025. Whole-genome sequencing and bioinformatic tools powered by machine learning to identify antibiotic-resistant genes and virulence factors in *Escherichia coli* from sepsis. *Microb Genom*. Aug; 11(18):001465. DOI: 10.1099/mgen.0.001465.
 9. Pogreba BK, Austhof E, McFadden CM, Scranton C, Sun X, Vujkovic-Cviji I, Rodriguez D, Falk L, Heslin KM, Arani G, Obergh V, Bessey K, **Cooper K**. 2025. Determining the incidence, risk factors and biological drivers of irritable bowel syndrome (IBS) as part of the constellation of postacute sequelae of SARS-CoV-2 infection (PASC) outcomes in the Arizona CoVHORT-GI: a longitudinal cohort study. *BMJ Open*. Jan 30; 15(1):e095093. DOI: 10.1136/bmjopen-2024-095093.
 10. **Cooper KK**, Mourkas E, Schiaffino F, Parker CT, Pinedo Vasquez TN, Bardales PF, Penataro Yori P, Paredes Olortegui M, Manzanares Villaneuva K, Romaina Cachique L, Silva Delgado H, Hitchings MD, Huynh S, Sheppard SK, Pascoe B, Kosek MN. 2024. Sharing of *cmeRABC* alleles between *C. coli* and *C. jejuni* associated with extensive drug resistance in *Campylobacter* isolates from infants and poultry in the Peruvian Amazon. *mBio*, Dec 27:e0205424. DOI:10.1128/mbio.02054-24.
 11. Schiaffino F, Colston JM, Paredes Olortegui M, Penataro Yori P, Mourkas E, Pascoe B, Lima AAM, Mason CJ, Ahmed T, Kang G, Mduma E, Samie A, Zaidi A, Liu J, **Cooper KK**, Houpt ER, Parker CT, Lee GO, Kosek MN. 2024. The epidemiology and impact of persistent *Campylobacter* infections on childhood growth among children 0-24 months of age in resource-limited settings. *EClinicalMedicine*. Sept 28; 76:102841. DOI:10.1016/j.eclinm.2024.102841.
 12. Goforth M, Obergh V, Park R, Porchas M, Brierley P, Turni T, Patil B, Ravishankar S, Huynh S, Parker CT, **Cooper KK**. 2024. Bacterial diversity of cantaloupes and soil from Arizona and California commercial fields at the point of harvest. *PLoS One*. Sep 26; 19(9):e0307477. DOI:10.1371/journal.pone.0307477.
 13. Pascoe B, Fitcher G, Pensar J, Bayliss SC, Mourkas E, Calland JK, Hitchings MD, Joseph LA, Lane CG, Greenlee T, Arning N, Wilson DJ, Jolley KA, Corandor J, Maiden MCJ, Parker CT, **Cooper KK**, Rose EB, Hiatt K, Bruce BB, Sheppard SK. 2024. Machine learning to attribute the source of *Campylobacter* infections in the United States: A retrospective analysis of national surveillance data. *J Infect*. Nov; 89(5):106265. DOI:10.1016/j.jinf.2024.106265.
 14. Mourkas E, Valdebenito JO, Marsh H, Hitchings MD, **Cooper KK**, Parker CT, Szekely T, Johansson H, Ellstrom P, Pascoe B, Waldenstrom J, Sheppard SK. 2024. Proximity to humans is associated with antimicrobial-resistant enteric pathogens in wild bird microbiomes. *Curr Biol*. Sept 9; 34(17):3955-3965.e4. DOI:10.1016/j.cub.2024.07.059.
 15. Schiaffino F, Parker CT, Garcia Bardales PF, Huynh S, Villanueva K, Mourkas E, Pascoe B, Penataro Yori P, Paredes Olortegui M, Houpt ER, Liu J, **Cooper KK**, Kosek MN. 2024. Novel rpsK/rpsD primer-probe assay improves detection of *Campylobacter jejuni* and *Campylobacter coli* in human stool. *PLoS Negl Trop Dis*. Mar 1; 18(3):e0012018. DOI:10.1371/journal.pntd.0012018.
 16. Goforth M, Obergh V, Park R, Porchas M, Crosby KM, Jifron JL, Ravishankar S, Brierley P, Leskovar DL, Turini TA, Schulthesis J, Coolong T, Miller R, Koiwa H, Patil BS, Cooper MA, Huynh S, Parker CT, Guan W, **Cooper KK**. 2024. Bacterial diversity and composition on the rinds of specific melon cultivars and hybrids from across different growing regions in the United States. *PLoS One*, Apr 11; 19(4):e0293861. DOI:10.1371/journal.pone.0293861.
 17. Goforth M, Cooper MA, Oliver A, Pinzon J, Skots M, Obergh V, Suslow TV, Flores GE, Huynh S, Parker CT, Mackelprang R, **Cooper KK**. 2024. Bacterial community shifts of commercial apples,

- oranges, and peaches at different harvest points across multiple growing seasons. *PLoS One*, Apr 16; 19(4):e0297453. DOI: 10.1371/journal.pone.0297453.
18. Schiaffino F, Parker CT, Paredes Olortegui M, Pascoe B, Manzanares Villanueva K, Garcia Bardales PF, Mourkas E, Huynh S, Penataro Yori P, Romaina Cachique L, Gray HK, Salvatierra G, Silva Delgado H, Sheppard SK, **Cooper KK**, Kosek MN. 2024. Genomic resistant determinants of multidrug resistant *Campylobacter* spp. isolates in Peru. *J Glob Antimicrob Resist*, Jan 23:S2213-7165(24)00017-1. DOI:10.1016/j.jgar.2024.01.009.
 19. Penataro Yori P, Paredes Olortegui M, Schiaffino F, Colston JM, Vasquez T, Garcia Bardales PF, Shapiama Lopez V, Zegarra Paredes LF, Perez K, Curico G, Flynn T, Zhang J, Ramal Asayag C, Meza Sanchez G, Silva Delgado H, Casapia Morales M, Casanova W, Jiu B, Oberhelman R, Munayco Escate C, Silver R, Henao O, **Cooper KK**, Liu J, Houghton ER, Kosek MN. 2023. Etiology of acute febrile illness in the Peruvian Amazon as determined by modular formatted quantitative PCR: a protocol for RIVERA, a health facility-based case-control study. *BMC Public Health*, Apr 11; 23(1):674. DOI:10.1186/s12889-023-15619-6.
 20. Gabbert AD, Mydosh JL, Talukdar PK, Gloss LM, McDermott JE, **Cooper KK**, Clair GC, Konkel ME. 2023. The Missing Pieces: the role of secretion systems in *Campylobacter jejuni* virulence. *Biomolecules*, Jan 9; 13(1):135. DOI: 10.3390/biom13010135.
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CONFERENCES AND SCHOLARLY PRESENTATIONS

INVITED: Symposia

- 2025 **Speaker**, Universidad Autonoma de Tamaulipas, One Health Symposium. “One Health approach to addressing food safety issues”, Ciudad Victoria, Mexico
- 2025 **Speaker**, Center for Produce Safety (CPS), CPS Research Symposium Webinar Series. “Ability of treated agricultural water to eliminate established *Escherichia coli* O157:H7 in soil or plant surfaces”.
- 2025 **Speaker**, Universidad del Valle de Guatemala, One Health Symposium. “One Health approach to addressing food safety issues”, Guatemala City, Guatemala
- 2025 **Poster**, Center for Produce Safety (CPS), CPS Research Symposium. “How does weather influence transmission of *E. coli* O157:H7 from animal operations to produce fields?”, La Jolla, CA.
- 2024 **Speaker**, Center for Produce Safety (CPS), CPS Research Symposium. “Microbial characterization

- of irrigation waters using rapid, inexpensive, and portable next generation sequencing technologies”, Denver, CO.
- 2024 **Speaker**, Oxford Nanopore Seminar, “Evaluating the ability of Oxford Nanopore sequencing to detect various pathogens in agricultural waters”, Tucson, AZ.
- 2023 **Speaker**, Southwest One Health Symposium, “Utilizing genomics to address produce safety challenges”, Flagstaff, AZ.
- 2022 **Speaker**, Desert Agriculture Research Symposium, “Investigating the Evolution and Survival of Foodborne Pathogens in Different Desert Agricultural Environments”, Yuma, AZ.
- 2022 **Speaker**, Biosecurity Conference, “Watching What You Eat: Biosurveillance of Foodborne Pathogens”, Phoenix, AZ.
- 2022 **Speaker**, One Health Symposium, University of Arizona “Survivability and Evolution of Bacterial Foodborne Pathogens in Different Agricultural Environments”, Tucson, AZ.
- 2021 **Speaker**, Center for Produce Safety (CPS), CPS Agricultural Water Webinar. “Impact of Treating Agricultural Water with Sanitizers on the Microbiome of Leafy Greens”.
- 2021 **Speaker**, Center for Produce Safety (CPS), CPS Research Symposium Webinar Series. “Illuminating the role of whole genome sequencing in produce safety”.
- 2020 **Speaker**, Center for Produce Safety (CPS), CPS Research Symposium Webinar Series. “Illuminating the role of whole genome sequencing in produce safety”.

INVITED: Departmental Seminars

- 2025 **Speaker**, Ecosystem Genomics Seminar, The University of Arizona. Host: Rod Wing (October).
- 2024 **Speaker**, College of Veterinary Medicine, Research Day Keynote Speaker, The University of Arizona. Host: Samarpita Sengupta (September).
- 2023 **Speaker**, Department of Environmental Sciences Seminar, The University of Arizona. Host: Joseph Hoover (November).
- 2019 **Speaker**, Ecosystem Genomics Seminar Series, The University of Arizona. Host: Jana U’Ren (March).
- 2018 **Speaker**, Department of Soils, Water and Environmental Sciences Seminar, The University of Arizona. Host: Jean McLain (April).

INVITED: Other Seminars

- 2022 **Speaker**, USDA, ARS Western Regional Research Center, Seminar Series. Host: Michelle Carter (May)

CONTRIBUTED: Talks to National and International Conference Proceedings

- 2026 **Speaker**, *Campylobacter*, *Helicobacter* and Related Organisms (CHRO) Meeting, Ho Chi Minh City, Vietnam. Sharing of *cmeRABC* alleles between *C. coli* and *C. jejuni* associated with extensive drug resistance in *Campylobacter* isolates from infants and poultry in Peruvian Amazon” (November).
- 2025 **Speaker**, CampyUK Conference, Oxford, UK. “Sharing of *cmeRABC* alleles between *C. coli* and *C. jejuni* associated with extensive drug resistance in *Campylobacter* isolates from infants and poultry in Peruvian Amazon” (September).
- 2025 **Speaker**, *Campylobacter* Ecology and Evolution: “Bugs and Birds”, Flagstaff, AZ. “Food animal production and *Campylobacter*” (August).
- 2024 **Speaker**, International Association of Food Protection Annual Meeting, Long Beach, CA. “Assessing the ability of shotgun metagenomics to detect foodborne protozoan parasites in irrigation water samples” (July).

- 2023 **Speaker**, AOAC International Annual Meeting, New Orleans, LA. “Microbial characterization of agricultural waters using the rapid, inexpensive, and portable Oxford Nanopore MinION” (August).
- 2019 **Speaker**, *Campylobacter*, *Helicobacter* and Related Organisms (CHRO) Meeting, Belfast, Northern Ireland “Comparative genomics of *Campylobacter jejuni* strains producing different diarrheal pathotypes” (September).

CONTRIBUTED: Local, National, and International Conference Proceedings

- 2026 Rodriguez D, **Cooper KK**. “Characterizing the effects of short-chain fatty acids (SCFA’s) on *Campylobacter jejuni* virulence”, (Poster), International Food Protection Association Annual Meeting, New Orleans, LA, (July).
- 2026 Scranton, C, Obergh V, Goforth M, Ravi K, Jayakrishna P, Anisa SK, Krupp K, Madhivanan P, Boone S, Gerba C, Ijaz K, **Cooper KK**. “Characterizing the antibiotic resistance genes, virulence factors, and pathogens in the household environment of three global cities”, (Poster), International Food Protection Association Annual Meeting, New Orleans, LA, (July).
- 2026 Scranton C, McFadden C, Arani G, Rodriguez D, Obergh V, Austhof, E, Sun X, Pogreba-Brown K, **Cooper KK**. “Exploring the functional capabilities of inflammatory taxa in the Irritable Bowel Syndrome gut microbiome”, (Poster) American Society of Microbiology General Meeting, Washington, D.C. (June).
- 2025 Bosquez JM, Parker CT, Pascoe B, **Cooper KK**. ”Strain-specific virulence signatures of *Campylobacter jejuni* associated with watery versus bloody diarrhea”, (Poster), CampyUK Conference (September).
- 2025 Bosquez JM, Parker CT, Pascoe B, **Cooper KK**. “Growth rates and metabolic traits differ by diarrheal manifestation in *Campylobacter jejuni* strains”, (Poster), CampyUK Conference (September).
- 2024 M. Baker, J. Bosquez, V. Obergh, M.A. Cooper, and **K.K. Cooper**. “Characterizing the gut microbiome and antibiotic resistance genes in feral cats from Southern Arizona”, (Poster), College of Veterinary Medicine Research Symposium, University of Arizona (September).
- 2024 R. McKenna, J. Bosquez, V. Obergh, **K.K. Cooper**, and M.A. Cooper. “Assessing the prevalence of zoonotic pathogens within the feral feline population of Southern Arizona”, (Poster), College of Veterinary Medicine Research Symposium, University of Arizona (September).
- 2024 J. Bosquez and **K.K. Cooper**. “Unlocking the role of RacRS in *Campylobacter jejuni* pathogenesis”, (Presentation), *Campylobacter*, *Helicobacter*, and Related Organisms (CHRO) Conference, Perth, Australia (September).
- 2024 J. Bosquez and **K.K. Cooper**. “Unlocking the role of RacRS in *Campylobacter jejuni* pathogenesis”, (Presentation), International Food Protection Association Annual Meeting, Long Beach, CA, (July).
- 2024 D. Rodriguez and **K.K. Cooper**. “Characterizing the effects of short chain fatty acids (SCFAs) on *Campylobacter jejuni* virulence”, (Poster), International Food Protection Association Annual Meeting, Long Beach, CA, (July).
- 2024 V. Obergh, C. Scranton, U. Patel, E. Austhof, N. Brassill, C. McFadden, B. Saber, C. Rock, K. Pogreba-Brown, and **K.K. Cooper**. “Die-off rates of *Escherichia coli*

- O157:H7 in agricultural soils” (Poster), International Food Protection Association Annual Meeting, Long Beach, CA, (July).
- 2024 J. Mydosh and **K.K. Cooper**. “Unlocking the role of RacRS in *Campylobacter jejuni* pathogenesis”, (Poster), ALVSCE Research Showcase, University of Arizona (April).
- 2024 U. Patel, V. Obergh, C. Scranton, J. McLain, K. Ellingson, and **K.K. Cooper**. “Metagenomic analysis of antibiotic resistance and virulence genes along the Santa Cruz river”, (Poster), ALVSCE Research Showcase, University of Arizona (April).
- 2024 C. Scranton, D. Rodriguez, C. McFadden, E. Austhof, K. Pogreba-Brown, and **K.K. Cooper**. “Proteomic comparison of capillary and venous blood under different time and temperature parameters”, (Poster), ALVSCE Research Showcase, University of Arizona (April).
- 2023 D. Loso and **K.K. Cooper**. “Characterizing phage encoded DNA methyltransferases of enterohemorrhagic *Escherichia coli* (EHEC)” (Poster), University of Arizona Food Safety Consortium Virtual Meeting, (October).
- 2023 J. Mydosh, S. Huynh, C.T. Parker and **K.K. Cooper**. “The different lifestyles of *Campylobacter jejuni* strains” (Poster), University of Arizona Food Safety Consortium Virtual Meeting, (October).
- 2023 V. Obergh and **K.K. Cooper**. “Assessing the mutational rates of bacterial foodborne pathogens in different agricultural environments during long-term colonization or environmental cycling” (Poster), University of Arizona Food Safety Consortium Virtual Meeting, (October).
- 2023 U. Patel, V. Obergh, C. Scranton, J. McLain, K. Ellingson, and **K.K. Cooper**. “Metagenomic analysis and functional screening of antibiotic resistance genes in the Santa Cruz River” (Poster), University of Arizona Food Safety Consortium Virtual Meeting, (October).
- 2023 J. Mydosh, S. Huynh, C.T. Parker and **K.K. Cooper**. “The different lifestyles of *Campylobacter jejuni* strains” (Poster), International Food Protection Association Annual Meeting, Toronto, CN, (July).
- 2023 V. Obergh and **K.K. Cooper**. “Assessing the mutational rates of bacterial foodborne pathogens in different agricultural environments during long-term colonization or environmental cycling” (Poster), International Food Protection Association Annual Meeting, Toronto, CN, (July).
- 2022 J. Mydosh, C.T. Parker, and **K.K. Cooper**. “Phenotypic and genotypic comparisons of *Campylobacter jejuni* strains with different clinical outcomes” (Poster), International Food Protection Association Annual Meeting, Pittsburgh, PA, (July).
- 2022 M. Goforth, V. Obergh, R. Park, S. Ravishankar, C.T. Parker, and **K.K. Cooper**. “Microbial diversity of different melon types grown in different regions in the United States” (Poster), International Food Protection Association Annual Meeting, Pittsburgh, PA, (July).
- 2021 C. Heiner, V. Obergh, M. Leal, J. Mydosh, L. Salsburg, C.T. Parker, and **K.K. Cooper**. “Survival of *Salmonella* in Plant-based meat products and impact on the microbiome” (Poster), University of Arizona Food Safety Consortium Virtual Meeting, (October).
- 2021 J. Mydosh, C.T. Parker, and **K.K. Cooper**. “Phenotypic and genotypic comparisons of *Campylobacter jejuni* strains with different clinical outcomes” (Poster), University of Arizona Food Safety Consortium Virtual Meeting, (October).

- 2021 M. Goforth, V. Obergh, R. Park, S. Ravishankar, C.T. Parker, and **K.K. Cooper**. “Microbial diversity of different melon types grown in different regions in the United States” (Poster), University of Arizona Food Safety Consortium Virtual Meeting, (October).
- 2020 V. Obergh and **K.K. Cooper**. “Evolution and survivability of foodborne pathogens in agricultural environments” (Poster), University of Arizona Food Safety Consortium Virtual Meeting, (October).
- 2020 J.K. Robinshaw-Denton, C.T. Parker, E. Mourkas, B. Pascoe, S.K. Sheppard, S. Huynh, W.G. Miller and **K.K. Cooper**. “Comparative genomics of sympatric *Campylobacter jejuni* strains reveals little evidence that strains are exchanged between passerine birds and mammals in the Salinas Valley of California” (Poster), University of Arizona Food Safety Consortium Virtual Meeting, (October).
- 2019 **K.K. Cooper**, J. Pinzon, M.A. Cooper, M. Skots, G.E. Flores, R. Mackelprang, T.V. Suslow, “Characterization of tree fruit bacterial communities during harvest” (Poster), International Food Protection Association Annual Meeting, Louisville, Kentucky (July).
- 2018 **K.K. Cooper**, J. Pinzon, M.A. Cooper, M. Skots, G.E. Flores, R. Mackelprang, and T.V. Suslow, “Characterization of tree fruit bacterial communities during harvest” (Poster), Lake Arrowhead Microbial Genomics Meeting, Lake Arrowhead, California (September).

AWARDED GRANTS AND CONTRACTS

(Limited to period in current rank; grant amount total only represents funds awarded to Kerry Cooper.)

Active Awards

Federal Grants Awarded

- 2023 – 2028 “Enabling infectious disease research capacity in the Peruvian Amazon.” NIH D43, \$70,285 total (\$5,205 or 8% indirect funding) – 10% effort, (PI – Margaret Kosek, University of Virginia; co-PI – Kerry Cooper, University of Arizona).
- 2023 – 2028 “Determining the incidence, risk factors, and biological drivers of irritable bowel syndrome (IBS) as part of the constellation of post-acute sequelae of SARS-CoV-2 infection (PASC) outcomes.” NIH R01, \$1,391,772 total (\$485,080 or 53.5% indirect funding) – 8% effort, (PI – Kristen Pogreba-Brown, University of Arizona; co-PIs – Kerry Cooper, University of Arizona; Elizabeth Jacobs, University of Arizona; Xiaoxiao Sun, University of Arizona).
- 2021 – 2026 “Genomic epidemiology of *Campylobacter* to improve disease control in low- and middle-income countries.” NIH R01, \$214,469 total (\$74,750 or 53.5% indirect funding) – 30% effort, (PI – Margaret Kosek, University of Virginia; co-PIs – Kerry Cooper, University of Arizona; Craig Parker, USDA, ARS; Ben Pascoe, University of Oxford).

Other Grants Awarded (State, Industry, Private Foundation)

- 2026 “One Health approach to *Campylobacter* genomics.” Arizona Genomic Pathogen Analysis Pipeline Pilot Award, \$96,913.84 total (0% indirect funding) – 1% effort (PI- Kerry Cooper, University of Arizona).
- 2026 “The genomic characterization of *Salmonella* associated with fresh produce production.” Arizona Genomic Pathogen Analysis Pipeline Pilot Award, \$78,515.23 total (0% indirect funding) – 1% effort (PI- Kerry Cooper, University of Arizona).
- 2026 – 2027 “Evaluation of grower practices to reduce potential risks associated with the use of

- BSAAOs in leafy green production.” Center for Produce Safety, \$104,530.70 total (\$4,411.29 or 8% of personnel costs indirect funding) – 3% effort (PI – Channah Rock, University of Arizona; co-PI – Erika Austhof, University of Arizona; co-PI – Kerry Cooper, University of Arizona).
- 2025 – 2027 “Developing pathogen targeted DNA enrichment systems for improved molecular based detection methods.” Arizona Department of Agriculture, \$93,591.00 total (0% indirect funding) – 1.5% effort (PI – Kerry Cooper, University of Arizona).
- 2024 – 2026 “A unified genetic toolkit for *Cellulophaga*, *Sporosarcina*, and *Gordonia* species.” BioMADE, \$44,779 total (\$15,981 or 55.5% indirect funding) – 1% effort, (PI – Ross Thyer, Rice University; co-PI – Kerry Cooper, University of Arizona).
- 2025 – 2026 “How does weather influence transmission of *E. coli* O157:H7 from animal operations to produce fields.” Center for Produce Safety, \$344,109 total (\$13,230 or 8% of personnel costs indirect funding) – 3% effort, (PI – Kerry Cooper, University of Arizona; co-PIs – Erika Austhof, University of Arizona; Jim Bono, USDA, ARS).
- 2024 – 2026 “Assessing contamination of water subsistence foods and breastmilk in rural indigenous communities in the Peruvian Amazon.” University of Arizona One Health Initiative, \$50,000 (Internal funding no indirect) – 3%, (PI- Kerry Cooper, University of Arizona; co-PI – Purnima Madhivanan, University of Arizona).
- 2024 – 2026 “Environmental health assessment in a migrant community along the US-Mexico border.” University of Arizona One Health Initiative, \$50,000 (Internal funding no indirect) – 3%, (PI – Marc Verhougstrate, University of Arizona; co-PI- Kerry Cooper, University of Arizona).

Completed Awards

Federal Grants Awarded

- 2021 – 2022 “CARES ACT supplement funding – Conducting Integrated Infectious Disease and Public Health Research in Peru.” Centers for Disease Control and Prevention (CDC), \$52,591 total (\$18,330 or 53.5% indirect funding) – 20% effort, (PI – Margaret Kosek, University of Virginia; co-PI – Kerry Cooper, University of Arizona).
- 2017 – 2021 “Table to Farm: A sustainable systems-based approach for a safe, healthier melon supply chain in the U.S.” USDA-SCRI, \$92,474 (\$21,341 or 30% indirect funding) – 5% effort, (PI – Bhimu Patel, Texas A&M; co-PIs – Kerry Cooper, University of Arizona; Ravishankar S., Turini T., Nafukho F., Crosby K., Palma M., Brierley P., Friedman M., Vitha S., Ozores- Hampton M., Leskovar D., Koiwa H., Jifon J., Ribera L., Waller M., Miller R., Qian X., Jayaprakasha G., Singh J.).
- 2017 – 2019 “Characterization of tree fruit bacterial communities during harvest.” USDA-NIFA, \$150,000 total (\$34,000 or 30% indirect funding) – 20% effort, (PI - Kerry Cooper, University of Arizona; co-PI - Trevor Suslow, UC – Davis.).

Other Grants Awarded (State, Industry, Private Foundation)

- 2024 – 2025 “Indian Western Toilets – Indian Collaboration Project.” Reckitt Benckiser (ENA) B.V., \$112,408 total (\$18,044 or 19.1% indirect funding) – 1% effort, (PI – Charles Gerba, University of Arizona; co-PI – Kerry Cooper, University of Arizona).

- 2023 – 2024 “Microbiological risk assessment using QMRA in preharvest agriculture water treatment systems for leafy greens.” Center for Produce Safety, \$99,975 total (\$4,132 or 8% of personnel costs indirect funding) – 3% effort, (PI – Channah Rock, University of Arizona; co-PI – Kerry Cooper, University of Arizona; Charles Gerba, University of Arizona; Kerry Hamilton, Arizona State University).
- 2022 – 2024 “Comparative microbiome in the household and their potential relationships to hygiene in the home.” Reckitt Benckiser (ENA) B.V., \$108,940 total (\$39,525 or 62.5% indirect funding) – 1% effort, (PI – Charles Gerba, University of Arizona; co-PI – Kerry Cooper, University of Arizona).
- 2021 – 2024 “Die-off rates of *Escherichia coli* O157:H7 in agricultural soils.” Arizona Department of Agriculture (USDA-SCRI), \$240,222 total (0% indirect funding) – 1% effort, (PI – Kerry Cooper, University of Arizona; co-PI – Channah Rock, University of Arizona).
- 2021 – 2024 “Development of FSMA validation and verification system for leafy greens.” Arizona Department of Agriculture (USDA-SCRI), \$242,960 total (0% indirect funding) – 1% effort, (PI – Kerry Cooper, University of Arizona; co-PI – Channah Rock, University of Arizona).
- 2023 “CPS: Flood Rapid Response.” Center for Produce Safety, \$43,024 total (\$1,299 or 8% of personnel costs indirect funding) – 3% effort, (PI – Channah Rock, University of Arizona; co-PI – Kerry Cooper, University of Arizona; Charles Gerba, University of Arizona; Debankur Sanyal, University of Arizona).
- 2022 – 2023 “Microbial characterization of irrigation waters using rapid, inexpensive, and portable next generation sequencing technologies.” Center for Produce Safety, \$322,942 total (\$7,315 or 8% of personnel costs indirect funding) – 5% effort, (PI – Kerry Cooper, University of Arizona; co-PIs – Channah Rock, University of Arizona; Walter Betancourt, University of Arizona; Kelly Bright, University of Arizona).
- 2019 – 2021 “Agricultural water treatment – Southwest Region.” Center for Produce Safety, \$50,526 total (\$1,025 or 8% of personnel costs indirect funding) – 5% effort, (PI – Channah Rock; co-PIs – Kerry Cooper, University of Arizona; Alex Castillo, Texas A&M; Veerachandra Yemmireddy, University of Texas – Rio Grande Valley).
- 2019 – 2021 “Assessing public health risk from sewage spills along the Mexico-Arizona border.” University of Arizona, Research, Discovery, and Innovation Accelerate for Success Program. \$20,926 total (\$0 indirect funding) – 10% effort, PI (Jean McLain, University of Arizona; co-PIs - Kerry Cooper, University of Arizona; Katherine Ellingson, University of Arizona).
- 2018 – 2019 “Establishing a rat model to simulate post-infectious IBS.” University of Arizona, Research, Discovery, and Innovation Start for Success Program, \$25,000 total (\$0 indirect funding) – 15% effort, (PI - Kerry Cooper, University of Arizona; co-PI - Kristen Pogreba-Brown, University of Arizona).
- 2018 – 2020 “Illuminating the role of whole genome sequencing in produce safety.” Center for Produce Safety, \$88,689 total (\$2,176 or 8% of personnel costs indirect funding) – 15% effort, (PI – Kerry Cooper, University of Arizona).

Grants Under Review

Federal Grants

- 2025 – 2030 “CONTACT 2 – Cost-effective management and scientific challenges of risks associated with implementation of produce safety programs.” United States Department of Agriculture, Specialty Crop Research Initiative, \$1,100,000 total (\$220,000 or 30% indirect funding) – 10% effort (PI – Danyluk, University of Florida; co-PI – Channah Rock, University of Arizona; co-PI – Margarethe Cooper University of Arizona; co-PI – Kerry Cooper, University of Arizona).
- 2026 – 2028 “AWARE: Agricultural water assessment for risk evaluation and stakeholder decision support.” United States Department of Agriculture, National Institute of Food and Agriculture, \$300,000 total (\$90,000 or 30% indirect funding) – 10% effort (PI – Channah Rock, University of Arizona; co-PI – Kerry Cooper, University of Arizona).
- 2026 – 2029 “Integrating aquaculture-derived microbiomes to enhance productivity and resilience in greenhouse perennial specialty crops.” United States Department of Agriculture, National Institute of Food and Agriculture, \$849,995 total (\$254,999 or 30% indirect funding) – 10% effort (PI – Matthew Recestar, University of Arizona; co-PI – Kerry Cooper, University of Arizona).

Other Grants (State, Industry, Private Foundation)

- 2026 – 2027 “Plasma-activated water for agricultural use: efficacy and microbial community impact.” Plasma Water, \$342,423 total (0% indirect funding) – 10% effort (PI – Channah Rock, University of Arizona; co-PI – Kerry Cooper, University of Arizona).