

CURRICULUM VITAE

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EDUCATION

The University of Arizona, College of Agriculture and Life Sciences, Department of Soil and Water Science, PhD, 1995. Dissertation title: *Detection of Enteroviruses in Marine Waters Using RT-PCR*. Advisors: Charles P. Gerba and Ian L. Pepper. Major Field: Environmental Microbiology

The University of South Florida, Department of Environmental and Occupational Health, MSPH, 1992. Thesis title: *Evaluation of Methods for the Recovery and Quantitation of Bacteriophage from Marine Waters and Sediment*. Advisor: Joan B. Rose. Major Field: Environmental Microbiology

The University of Arizona, College of Arts and Sciences, BS, 1989. Major Field: Microbiology

EMPLOYMENT

Interim Associate Dean for Research, Mel and Enid Zuckerman College of Public Health, The University of Arizona, September 2021-July 2022

Professor, Community, Environment and Policy, Mel and Enid Zuckerman College of Public Health, The University of Arizona, 2018-present

Department Chair, Community, Environment and Policy, Mel and Enid Zuckerman College of Public Health, The University of Arizona, 2018-present

Associate Professor (Tenured), Community, Environment and Policy, Mel and Enid Zuckerman College of Public Health, The University of Arizona, 2012-2018

Associate Professor, Joint Appointment, Department of Soil, Water and Environmental Science, College of Agriculture and Life Sciences, The University of Arizona, 2006-present

Associate Professor, Community, Environment and Policy, Mel and Enid Zuckerman College of Public Health, The University of Arizona, 2006-2012

Assistant Research Scientist/Appointed Faculty, Department of Soil, Water and Environmental Science, Environmental Research Laboratory, College of Agriculture and Life Sciences, The University of Arizona, 1995-2006

Post Doctoral Fellow/Teaching Assistant, Department of Soil and Water Science, College of Agriculture and Life Sciences, The University of Arizona, 1995

Research Fellow, Department of Soil and Water Science, College of Agriculture and Life Sciences, The University of Arizona, 1992-1994

Research Assistant, Department of Environmental and Occupational Health, College of Public Health, The University of South Florida, 1989-1991

Research Technician, Department of Microbiology and Immunology, College of Agriculture and Life Sciences, The University of Arizona, 1987-1989

HONORS AND AWARDS

Top two finalists, 2022 NIOSH Science and Service Award. Bullard-Sherwood Research to Practice Award Finalist for Intervention. (Honorable Mention Certificate) NIOSH COVID-19 IPA Program: Expanding Occupational Health and Safety Expertise Through External Partnerships.

American Chemical Society (ACS) Omega, top 50 most outstanding articles to demonstrate the quality of work published over the last 5 years. 2020. ACS Omega Announcement: https://pubs.acs.org/page/acsodf/vi/5-year-celebration-acsomega?ref=vi_journalhome

Delta Omega, Alpha Nu chapter, Honorary Society, Faculty Member, 2019

Research featured on Chemistry Views, Wiley-VCH's chemistry portal. Noteworthy: Direct Pathogen Monitoring. March 12, 2018.

Research featured in the Association of Schools and Programs of Public Health, Friday Letters-Member research and reports. Arizona: Use of a Portable Air Disinfecting System to Remove Seeded Coliphage in Hospital Rooms. April 13, 2016.

Mel & Enid Zuckerman College of Public Health, Excellence in Research Award, 2015

Who's Who in Infection Prevention. One of 37 recognized as an outstanding individual working hard to advance the infection prevention and control agenda, as nominated by Infection Control Today readers, 2014

Nominated for the University of Arizona's 1885 Society Distinguished Scholar Award, 2013

Judges Choice Award for best linkage of scientific research to issues of concern within the community. Valdez, M.K. J.D. Sexton, **K.A. Reynolds**. Transfer and control of infectious microbes in emergency vehicles. Environmental Research Grad Blitz. Tucson, AZ, November 2012

Nominated for the Mel & Enid Zuckerman College of Public Health Annual Award for Outstanding Contribution in the Area of Research. Ranked in top 3 of 58 faculty, 2011

Tucson Fire Department's Award of Service, 2010

William B. Fritzsche Memorial 2009 Top 50 International Award, for service and dedication to the water treatment industry.

Water Quality Association, Honorary Lifetime Member Award, 2009. In recognition of exceptional service given to the water quality improvement industry.

Water Conditioning and Purification International's Award of Appreciation for the most requested article reprints in journal history, 2008-2009

Water Conditioning and Purification International's Award of Appreciation to honor service and commitment to the Technical Review Committee, 2008-2009

UA-NASA Space Grant Award, 2007-2008

ASUA Enrichment Grant Award, 2007-2008

First place Poster Award, Public Health Graduate and Professional Student Council Showcase, 2007; Student advised: Jonathan Sexton

Academic Who's Who in Health Sciences Higher Education, 2007

Presentation voted "best of show". Invited speaker, *The Hazards of Indoor Mold*. 29th Annual Water Quality Association Conference. Las Vegas, NV. March 18-22, 2003

Travel Grant from WQA. Annual Convention and Symposium. Las Vegas, NV, 2003

Travel Grant from NSF. HPC Bacteria in Drinking Water. Geneva, Switzerland Symposium, 2002

Appointed member of the NSF/WHO Heterotrophic Plate Count Bacteria (HPC) Conference Steering Committee by the Water Quality Association Technical Board, 2000-2002

Foreign Travel Grant Award for faculty, 1996

American Society for Microbiology Sustaining Member Student Travel Grant, 1995

Travel Stipend from The Women in Science and Engineering Office, 1995

The United States Department of Agriculture National Needs Fellowship, 1992-1995

The University of Arizona Academic Achievement Scholarship Award, 1992-1995

SERVICE/OUTREACH

Local and State Outreach (since 2012)

COVID-19 Research, Response, and Lessons Learned. College of Pharmacy and the Mel and Enid Zuckerman College of Public Health Wonder at Home Series. Moderator. March 25, 2021

UAHS Expert Video Insights. What is the safest way to dry your hands? August 20, 2020.

AzPHA and UArizona faculty and staff open letter regarding COVID-19 response recommendations. <http://www.azpha.org/wills-blog/2020/7/28/open-letter-from-azpha-amp-university-of-arizona-faculty-and-staff-regarding-covid-19-response-recommendations>. July 28, 2020.

Infection Prevention: UArizona Shares Basic Fundamentals for Reopening. President Robert C. Robbins and Kelly Reynolds. <https://www.youtube.com/watch?v=6qBigpiwfVg> June 12, 2020.

Rotary Club of Tucson. Keynote. COVID-19 Workplace and Home Prevention Training. <https://www.youtube.com/watch?v=200DlvqormM>. June 4, 2020.

Arizona Water Innovation Challenge Video. Promoting water reuse through microbrewery competition. October 31, 2016. <https://youtu.be/oEXUD8XeZno>. Grand Challenge Winner.

UA Institute of the Environment, meeting of Department Heads and Directors, October 22, 2015

UA Campaign Video, March 2014

Water Safety Plan Development. University of Arizona Steward Observatory Mirror Lab. Student intern: Joli Jones, 2013

Mold Survey and Education Outreach. Northwest Fire District. 2012

National Outreach (since 2012)

Water Quality Association Sustainability Review Board. Vice-Chair. 2022-2024.

Healthcare Infection Transmission Systems (HITS). Co-Founder and Steering Committee Vice-Chair. 2017-2021

Clean Water for All advocacy group. 2020

Applied Radiology Expert Forums. COVID-19 Special Series: Tips for Protecting Your Family. <https://event.on24.com/eventRegistration/EventLobbyServlet?target=reg20.jsp&referrer=&eventid=2301687&sessionid=1&key=395CA1D59B0B9ECD030254FF6F3A282E®Tag=&sourcepage=register>. May 14, 2020.

EMS Exposure Reduction Training. Partnership with Tucson Fire Department (TFD), Tucson Fire Fighters Association IAFF Local 479. <https://www.youtube.com/watch?v=G1bGJtfzHdE&feature=youtu.be> Posted March 21, 2020. (Impact: >20,000 views)

PreventLD Training. Preventing Legionnaires' Disease: A training on *Legionella* water management programs. <https://www.cdc.gov/nceh/ehs/elearn/prevent-LD-training.html> 2019-present

WQA Radio. Podcast. The impact of the Santa Clarita, California water softener ban. <https://soundcloud.com/user-141188699/wqa-radio-39-kelly-reynolds-on-santa-clarita-softener-ban>. September 28, 2017

AHE Learning Express Video Library. Soft surfaces contamination concerns in healthcare environments. September 27, 2016

AHE Learning Express Video Library. Quantitative risk modeling to evaluate microbial transmission patterns in healthcare environments. September 27, 2016

QMRA III Program Faculty- contributed content. Michigan State University. August 7-10, 2015

Water Laboratory Alliance Analytical Preparedness Full Scale Exercise (AP-FSE) Tool Kit Pilot. A collaboration with ESRAC, Tucson Water, and the Environmental Protection Agency (EPA). Certificate of Appreciation. June 26, 2016

EPA (Environmental Protection Agency). Expert review panelist for draft document, "Site-Specific Alternative Recreational Criteria Technical Support Material for Predominantly Non-Human Fecal Sources", March 2015

National Park Service. Environmental Predictors of Fecal Indicator Bacteria in Recreational Waters and Risk Communication at Five National Park Service Sites. Student intern advised: Rebecca Ragar, 2013

International Outreach (current and since 2012)

Policy impact scholarship: Research on recreational water quality in Brazil, was used to develop the latest US EPA's Recreational Water Quality Criteria report. Our work represents one of only three international studies included in this national report, and the report demonstrates how our research informs national policy. EPA report: [Report on the 2nd Five-Year Review of EPA's Recreational Water Quality Criteria](#); Research article: [A critical analysis of recreational water guidelines developed from temperate climate data and applied to the tropics - ScienceDirect](#)

International Scientific Forum on Home Hygiene (IFH). Scientific Advisory Board. 2023-present.

Global Bio-risk Advisory Council (GBAC) Advisory Board Member, January 2022-present

COVID-19 Global Prevention Webinar. MEZCOPH. Speaker and panelist. April 1, 2020.

Codes and Standards CSA Cleaning and Disinfection Committee, focused on the development of healthcare cleaning standards in Canada. Founding member, 2018-2019

Environment, Exposure Science and Risk Assessment Center (ESRAC) website development. 2013-present

Quarterly author of De Le Llave, an educational column for Agua Latinoamérica, focused on current and emerging water quality issues in Latin America. Published in Spanish. 2001-2021

Monthly author of On Tap, an educational column for Water Conditioning and Purification International, focused on cutting-edge research in the field of environmental microbiology. 1997-2022

Appointed to the Technical Review Council, Water Conditioning and Purification, 1996-2021

Reddit AMA. February 1, 2013. Second most popular AMA for the day; 277 points and 71st most popular topic on Reddit immediately following live post.

Local/National/International Media (abbreviated 2019-present)

Research has been featured in hundreds of unique local, national and international television, print and web outlets including: Television/Radio: *Fox News "Neil Cavuto News Hour", The Today Show, PBS News Hour, EXTRA!, Inside Edition, CBS News, NPR "All Things Considered", CNN, Chicago NBC 5, Phoenix KPHO News 5, CBS 5 News Phoenix, ABC 15 KNXV-TV Phoenix, KVOA 4 Tucson, Arizona Illustrated, The Office*; Magazines: *Redbook, InStyle, Dr. Oz, Ladies Home Journal, Women's Day, Real Simple, Good Housekeeping, House Beautiful, Parade, Reader's Digest, Parents, Health, Prevention, Self, Shape, Fitness, Men's Health, Forbes, Conde Nast, American Baby, Consumer Reports, Essence, Cooking Light, Quick and Simple, Working Mother, Best Life, Bottom Line Health, All You, Arthritis Today, Walmart World, Life Science Weekly, Wall Street Journal, NY Times, NY Daily News, NY Business News, NY Daily Gazette, Charleston Gazette, Make it Better, Arizona Daily Star, Glow*;

Webcasts: BuzzFeed, Huffington Post, Yahoo! Health, Oprah.com, MSN.com, AARPonline, Consumer Affairs, MailOnline (UK), 774 ABC Melbourne, WeightWatchers.com, American Society for Microbiology's Microbe World, Bronx New Moms, Grandparents.com, Bob Villa's Healthy Home, Medical Observer, Mommycast.com and others.

1. The Daily Mirror (United Kingdom). You're committing a common dog bed cleaning mistake and it's making you both ill. <https://www.mirror.co.uk/lifestyle/youre-committing-common-dog-bed-33971227> October 25, 2024
2. Unilad. If you have this slime gathering on your showerhead you could be in danger. <https://www.unilad.com/news/health/slime-on-showerhead-health-issues-165558-20241115> November 15, 2024
3. Well+Good. 'I'm a public health expert, and I'm begging you to replace these 9 bedroom items ASAP. <https://www.wellandgood.com/bedroom-items-to-clean-replace/> October 20, 2024
4. Things That Make People Go Aww: Lifestyle blog. 12 Things that need to be washed more than you think. <https://thingsthatmakepeoplegoaww.com/things-that-need-to-be-washed-more-than-you-think/>
5. Real Simple. Should you use the hand dryer or paper towels in a public restroom? Here's what microbiologists say. <https://www.realsimple.com/hand-dryers-vs-paper-towels-8715467> September 20, 2024
6. Livestrong. How often you should replace (or clean) bedroom items. September, 2024
7. House Digest. Does the washer or dryer disinfect laundry? <https://www.housedigest.com/1582722/does-washer-or-dryer-disinfect-laundry/> May 18, 2024
8. Malaysian trick to cleaning bathrooms. May 3, 2024
 - a. Senest: <https://senest.dk/livsstil/hvor-mange-gange-om-ugen-boer-man-ifoelge-videnskaben-rengoere-badevaerelset>
 - b. The U.S Sun: <https://www.the-sun.com/lifestyle/11301392/malaysia-trick-clean-bathrooms-easier/>
 - c. PressBee: <https://en.pressbee.net/show2890637.html?title=i-live-in-malaysia-and-our-trick-makes-cleaning-bathrooms-so-much>
9. AARP The Girlfriend. Unexpected yet germiest places in a hotel room. Interviewed May 2024
10. Radio Sarajevo (Bosnia and Herzegovina, in Croatian). Health benefits and liabilities of showers compared to baths. https://radiosarajevo.ba/magazin/zivot-i-stil/prednosti-i-manje-zamijenili-smo-javna-kupatila-i-kupanje-tusiranje-ali-sta-je-bolje/542412#google_vignette April 20, 2024
11. National Geographic. We swapped baths for showers but which one is better for you? <https://www.nationalgeographic.com/history/article/baths-showers-clean-history-health-psychology> April 11, 2024
12. KJZZ Radio. The EPA set new outdoor air quality standards for fine particulate matter. <https://kjzz.org/content/1875570/february-epa-set-new-standards-outdoor-air-quality-who-sets-indoor-standards> April 1, 2024
13. Sanitation problems in the kitchen can lead to health risks. March 11, 2024
 - a. New York Post: <https://nypost.com/2024/03/11/lifestyle/why-your-nasty-kitchen-sink-is-making-you-sick-and-how-to-prevent-it/>
 - b. Yahoo: <https://www.yahoo.com/lifestyle/5-overlooked-areas-kitchen-serving-182434828.html?guccounter=1>

- c. American Talk: <https://americantalk.live/these-5-overlooked-areas-of-your-kitchen-are-serving-up-the-most-germs/>
 - d. USA Times: <https://usa-times.news/these-5-overlooked-areas-of-your-kitchen-are-serving-up-the-most-germs/>
14. How to effectively deep-clean your laundry. February 16, 2024
 - a. Yahoo: <https://www.yahoo.com/lifestyle/sanitize-laundry-120200188.html>
 - b. Men’s Journal: <https://www.mensjournal.com/pursuits/home-living/how-to-sanitize-laundry>
 15. Daily Dot. How dirty shower curtains can be. <https://www.dailydot.com/news/peeling-shower-curtain-back-strangers-bathroom/> January 31, 2024
 16. YahooTech. how to effectively clean everyday devices for cheap. <https://www.yahoo.com/tech/heres-how-to-clean-airpods-without-breaking-the-bank-or-your-tech-according-to-experts-210446181.html> January 29, 2024
 17. Daily Express (UK) News Article. Stop wearing your shoes inside. <https://www.express.co.uk/life-style/health/1858551/stop-wearing-shoes-inside-house-doctor> January 24, 2024
 18. BuzzFeed. The germiest places at the airport. <https://www.buzzfeed.com/carolinebologna/the-germiest-places-at-the-airport-duijthn4rp-1> November 28, 2023
 19. The Rakyat Post (Malaysia). Emulating social media videos of people sharing meals with pets can lead to health risks. <https://www.therakyatpost.com/living/2023/10/16/heres-why-its-not-advisable-to-share-dishes-with-your-pets-no-its-not-about-allergies/> October 16, 2023
 20. Yahoo! Tech. Here’s how to clean AirPods without breaking the bank (or your tech), according to experts. <https://www.yahoo.com/tech/heres-how-to-clean-airpods-without-breaking-the-bank-or-your-tech-according-to-experts-210446181.html> January 29, 2024
 21. How often should you wash your bath towels? October 14, 2023
 - a. The Telegraph (UK): <https://www.telegraph.co.uk/health-fitness/body/how-often-wash-towels-hygiene-toothbrush-bacteria-virus/>
 - b. Yahoo News (UK): <https://uk.news.yahoo.com/often-wash-towels-no-really-070000214.html?guccounter=1>
 22. The germiest places at the airport. October 7, 2023
 - a. Huffpost: https://www.huffpost.com/entry/germiest-places-airport-goog_1_6514499fe4b0b4348f456526
 - b. Web Times (UK): <https://webtimes.uk/the-germiest-places-at-the-airport/>
 - c. Germanic (Germany in German): <https://germanic.news/die-keimreichsten-orte-am-flughafen/>
 23. No, leaving your hands wet or drying them with your clothes isn’t more sanitary than using an air dryer. September 1, 2023
 - a. Verify This: <https://www.verifythis.com/article/news/verify/health-verify/electric-air-hand-dryer-cleaner-less-bacteria-dry-hands-than-leaving-hands-wet/536-5dd8629e-898f-468d-869d-40199ef9543f>
 - b. WCSH-TV (Portland, ME): <https://www.newscentermaine.com/article/news/verify/electric-air-hand-dryer-cleaner-less-bacteria-dry-hands-than-leaving-hands-wet/536-5dd8629e-898f-468d-869d-40199ef9543f>

- c. KAGS-TV (Bryan, TX): <https://www.kagstv.com/article/news/verify/health-verify/electric-air-hand-dryer-cleaner-less-bacteria-dry-hands-than-leaving-hands-wet/536-5dd8629e-898f-468d-869d-40199ef9543f>
 - d. 24S Sports: <https://24ssports.com/using-an-air-dryer-will-keep-your-hands-cleaner-than-leaving-them-wet/>
24. The 7 filthiest spots at the airport that will make you think twice about touching anything.
 - a. Buzzfeed. <https://www.buzzfeed.com/carolinebologna/germiest-places-airport-7530300> September 11, 2023
 - b. Yahoo Life. <https://www.yahoo.com/lifestyle/according-experts-germiest-places-every-091602719.html> September 12, 2023
 25. Woman’s World. There’s more mold on your windowsills than anywhere else in your home – here, the best way to change that <https://www.womansworld.com/posts/home/how-to-clean-window-sills> August 23, 2023
 26. CretaLive; MSN Greece (Greece, in Greek). How often should you wash your bath towels? <https://www.cretalive.gr/ekinos-ekeni/poso-syhna-prepei-na-plenete-tis-petsetes-mpanioly;> <https://www.msn.com/el-gr/news/other/%CF%80%CF%8C%CF%83%CE%BF-%CF%83%CF%85%CF%87%CE%BD%CE%AC-%CF%80%CF%81%CE%AD%CF%80%CE%B5%CE%B9-%CE%BD%CE%B1-%CF%80%CE%BB%CE%AD%CE%BD%CE%B5%CF%84%CE%B5-%CF%84%CE%B9%CF%82-%CF%80%CE%B5%CF%84%CF%83%CE%AD%CF%84%CE%B5%CF%82-%CE%BC%CF%80%CE%AC%CE%BD%CE%B9%CE%BF%CF%85/ar-AA1f7X6u>
 27. A Sharp Eye. Would you like me to take my shoes off? <https://www.asharpeye.com/would-you-like-me-to-take-my-shoes-off/> June 20, 2023
 28. [EPA awards UArizona \\$10M for new environmental justice center.](#) UA News. June 8, 2023
 29. [EPA awards UArizona \\$10M for new environmental justice center.](#) Bio5 News. June 7, 2023
 30. NBC Today show. [Do you really need a top sheet?](#) We asked an expert to settle the debate. May 23, 2023
 31. Livestrong. How bad is it to never clean your shower? <https://www.livestrong.com/article/13768313-effects-of-not-cleaning-shower/> May 5, 2023
 32. Livestrong. How bad is it to never deep clean your car? https://www.livestrong.com/article/13776400-effects-of-never-deep-cleaning-car/?utm_source=trellis&utm_medium=email&utm_campaign=Clips%20for%20April%208-10,%202023 April 9, 2023
 33. Everyday Health. How often should you wash your towels? April 5, 2023
 34. Shop TODAY. How often should you clean your mattress? March 31, 2023
 35. Everyday Health. How often should you wash your sheets? <https://www.everydayhealth.com/healthy-living/how-often-should-you-wash-your-sheets/> March 11, 2023
 36. WEBE-FM Radio, Hartford and New Haven, CT). Top germ hot spots to avoid at the airport. <https://app.criticalmention.com/app/#clip/view/8c13d55f-0e82-4159-a36a-470925a4ca17?token=286d3a2d-7081-43d0-8dad-33117f2f999b>
 37. Verywell Health. Should you worry about how acidic your sparkling water is? <https://www.verywellhealth.com/does-it-matter-how-acidic-your-water-is-7107582> February, 14,2023

38. Verywell Health. Remember: Tap water is not sterile. <https://www.verywellhealth.com/tap-water-is-not-sterile-7099927> January 30, 2023
39. Livestrong. Is never cleaning your gym equipment really that bad? <https://www.livestrong.com/article/13775393-clean-workout-equipment/> January 9, 2023
40. Consumer Reports. High-end cleaning com the Laundress tells consumers to stop using its products. <https://www.consumerreports.org/product-safety/the-laundress-tells-consumers-to-stop-using-its-products-a1227857835/> November 18, 2022
41. SELF Magazine. Here’s how often you *really* need to clean your bathroom. <https://www.self.com/story/how-often-should-you-clean-bathroom> November 18, 2022
 - a. New York Folk: <https://newyorkfolk.com/wellness/heres-how-often-you-really-need-to-clean-your-bathroom/>
42. The Western Region Public Health Training Center, part of the Mel and Enid Zuckerman College of Public Health, was awarded \$4.1 million by the U.S. Health Resources and Services Administration to continue training and continuing education programs for public health professionals in the western United States and U.S. Pacific Islands.
 - b. The Arizona Republic: <https://www.azcentral.com/story/news/local/arizona/2022/10/07/4-1-m-awarded-help-recruit-public-health-workers-rural-arizona/8197765001/>
 - c. Becker’s Hospital Review: <https://www.beckershospitalreview.com/finance/4-1-m-awarded-to-recruit-train-public-health-workers.html>
 - d. HealthLeaders: <https://www.healthleadersmedia.com/finance/41m-awarded-help-recruit-train-public-health-workers-rural-arizona-communities>
13. BizTucson. Zuckerman College of Public Health given \$4 million to train regional professionals. <https://biztucson.com/2022/08/31/zuckerman-college-of-public-health-given-4-million-to-train-regional-professionals/> August 31, 2022
14. \$4.1M awarded to help recruit, and train public health workers in rural Arizona communities <https://www.azcentral.com/story/news/local/arizona/2022/10/07/4-1-m-awarded-help-recruit-public-health-workers-rural-arizona/8197765001/> October 7, 2022
15. AZCentral. Is it safe to go to restaurants, bars, and concerts now? How to assess your COVID-19 risk. <https://www.azcentral.com/story/entertainment/life/2022/08/05/is-it-safe-to-go-to-restaurants-concerts-bars-2022/10214524002/> August 5, 2022
16. LifeHacker. Your first aid kit may be expired. <https://lifelife.com/your-first-aid-kit-may-be-expired-1849183977> July 15, 2022
17. Livestrong.com. How bad is it really deep clean your bathroom? <https://www.livestrong.com/article/13772265-how-often-should-you-clean-your-bathroom/> June 26, 2022
18. Mirror UK. Experts share common dog bed cleaning mistake that makes you and your pet ill. <https://www.mirror.co.uk/news/world-news/experts-share-common-dog-bed-27167009> June 7, 2022
19. Livestrong.com. How bad is it really to not clean your dishwasher? <https://www.livestrong.com/article/13770930-how-bad-to-not-clean-dishwasher/> June 13, 2022
20. Livestrong.com. How bad is it really to never clean your yoga mat? <https://www.livestrong.com/article/13769154-clean-exercise-mat/> February 27, 2022
21. Livestrong.com. How bad is it really to share bar soap? <https://www.livestrong.com/article/13770279-effects-of-sharing-bar-of-soap/> February 20, 2022

- a. CNN Indonesia. How bad is it to share a bar of soap?
<https://www.cnnindonesia.com/gaya-hidup/20220225091724-277-763911/seberapa-buruk-pakai-sabun-batangan-bergantian> February 25, 2022
 - b. Republika (Indonesia). Bar soap is shared, can bacteria that stick to it can spread from person to person? <https://www.republika.co.id/berita/r7u96u414/sabun-batangan-dipakai-bersama-bakteri-yang-menempel-bisa-menyebar-dari-orang-ke-orang> February 25, 2022
 - c. Antara News. Is it a bad idea to share soap with others?
<https://www.antaranews.com/berita/2725437/ide-buruk-atau-baik-berbagi-pakai-sabun-batangan-dengan-orang-lain> February 25, 2022
22. Eat This, Not That! Your “clean” clothes may be covered in bacteria, shocking study says.
<https://www.eatthis.com/news-washing-machine-bacteria/> February 22, 2022
 23. Kumparan (Jakarta, Indonesia). Sharing makeup can be a source of bacteria. ○:
<https://kumparan.com/kumparanwoman/4-alasan-kamu-tak-boleh-meminjamkan-makeup-ke-orang-lain-1xFauZuOosZ> January 4, 2022
 24. The Hill. Congress must reform the safe drinking water act to guarantee the public right-to-know. <https://thehill.com/opinion/energy-environment/587667-congress-must-reform-the-safe-drinking-water-act-to-guarantee-the-bottom-story-socials> December 29, 2021
 25. New York Times Wirecutter. The best underwear for kids.
<https://www.nytimes.com/wirecutter/reviews/best-kids-underwear/> December 16, 2021
 26. Inverse.com. Is raw cookie dough safe? A food scientist reveals the best way to eat it.
<https://www.inverse.com/science/is-raw-cookie-dough-safe-to-eat>. October 23, 2021
 27. Freundin. How often should people clean their showers to prevent mold?
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153. Self Magazine. How gross is it really to re-wear sweaty workout clothes? <https://www.self.com/story/how-gross-re-wear-sweaty-workout-clothes>. June 5, 2019
154. Newsmax. The 10 most germ laden places you meet everyday. June 3, 2019
155. The Big Picture show. RT America, Washington D.C. Dangerous chemicals in drinking water in California. <https://www.youtube.com/watch?v=traIvsbgYtw>; May 31, 2019
156. American Cleaning and Hygiene. Women in Business. Twitter: <https://twitter.com/ACHygiene/status/1134500709167194112>;
LinkedIn: <https://www.linkedin.com/feed/update/urn:li:activity:6540266559494021120>; May 31, 2019
157. Tech Times. Chemicals in California tap water could cause over 15,000 cancer cases. <https://www.techtimes.com/articles/243872/20190528/chemicals-california-tap-water-cause-over-15-000-cancer-cases.htm> . May 28, 2019
158. Handwashing for Life: Healthcare. Pathogen pathway pictorials for healthcare C-suites. <http://handwashingforlifehealthcare.org/blog/jim-mann/pathogen-pathway-pictorials-healthcare-c-suites>. May 22, 2019
159. HuffPost. FYI, your credit card may be dirtier than a New York City subway pole. May 21, 2019. https://www.huffpost.com/entry/dirty-money-germs_1_5cdec311e4b09e057802bdca
160. First for Women. Why you need to stop washing your chicken before you cook. May 7, 2019 <https://www.firstforwomen.com/posts/washing-raw-chicken-141549>
161. Midday Live with Dr. Drew and Leeann Tweeden. AM 790 KABC. Arsenic and Cancer in California. May 2, 2019
162. KNXV-TV (ABC) Phoenix. Study estimates 15000 cancer cases could stem from chemicals in California tap water. April 30, 2019 <https://www.abc15.com/news/national/study-estimates-15-000-cancer-cases-could-stem-from-chemicals-in-california-tap-water>
163. USA Today. Sponges left in sinks become fecal germ bombs, science says. <https://www.usatoday.com/story/news/2019/04/30/sponges-left-sinks-become-fecal-germ-bombs-science-says/3618207002/>. April 30, 2019
164. CNN. Study estimates 15,000 cancer cases could stem from chemicals in California tap water. <https://www.cnn.com/2019/04/30/health/water-quality-cancer-risk-california-study/index.html>. April 30, 2019
165. CBS NY News. Chemicals in California's tap water. April 30, 2019
166. Men's Health. Are your gross habits affecting your health? April 29, 2019 <https://www.menshealth.com.au/gross-habits-affecting-health>
167. Real Simple. Best products to clean the bathroom. April 2019
168. Is bar soap sanitary or just crawling with germs? <https://www.self.com/story/bar-soap-sanitary-or-germy>. April 5, 2019
169. American Cleaning and Hygiene: Women in Business Cover Story. March 12, 2019. <https://www.americancleaningandhygiene.com/gender-equality-economic-growth/>

170. ASPPH Friday Letter. Arizona: Microbial transmission in an outpatient clinic and impact of an intervention with an ethanol-based disinfectant. March 7, 2019. <https://www.aspph.org/arizona-microbial-transmission-in-an-outpatient-clinic-and-impact-of-an-intervention-with-an-ethanol-based-disinfectant/>
171. Now Trending. CJAD News/Talk Radio Montreal. The germiest places in your home. March 10, 2019
172. Contagion Live. Outpatient infection control- managing microbial transmission. February 19, 2019. <https://www.contagionlive.com/contributor/saskia-v-popescu/2019/02/outpatient-infection-control-managing-microbial-transmission>
173. Curbed. Why everyone is talking about towels. February 18, 2019. <https://www.curbed.com/2019/2/18/18229530/towels-bathroom-best-bath-sheet-twitter>
174. Today Show (NBC). The best toilet paper to buy in 2019. February 14, 2019. <https://www.today.com/home/best-toilet-paper-buy-t148398>
175. Real Simple. Should you store bath towels in the bathroom? February 11, 2019. <https://www.realsimple.com/home-organizing/organizing/organizing-bathroom/where-to-store-bath-towels>
176. Real Simple. Should you let people wear shoes in your home? We asked a pro. February 7, 2019. <https://www.realsimple.com/home-organizing/cleaning/cleaning-more-rooms/shoes-inside-house>
177. Metro Parent. How to protect kids from germs. February 6, 2019. <https://www.metroparent.com/daily/health-fitness/childrens-health/how-to-protect-your-kids-from-germs/>

Journal/Book Reviews (since 2012)

Infection Control Tips, 2021

Journal of Occupational and Environmental Hygiene, 2014; 2016; 2017

Journal of Water and Health, 2012; 2017

Journal of Occupational and Environmental Health, 2014; 2016

Saudi Journal of Medicine & Medical Sciences, 2016

Integrative Environmental Health, Cohen and vom Sal (Eds.), The Weil Integrative Medicine Library, 2015

American Journal of Infection Control, 2014

International Journal of Environmental Research and Public Health, 2013

Journal of Virological Methods, 2012-2013

Public Health, 2012

Departmental Committees (since 2012)

Mentor, Marc Verhougstraete, Assistant Professor of Environmental Health Sciences, Mel & Enid Zuckerman College of Public Health, University of Arizona, 2016-2019

Mentor, Robert Canales, Assistant Professor of Environmental Health Sciences, Mel & Enid Zuckerman College of Public Health, University of Arizona, 2015-2019

Environmental Health Sciences, Program Director 2015-2017

Education Committee, Member 2015-2017

Community, Environment and Policy, Promotion and Tenure Committee, Member 2015-2017

Reviewer/Chair. Annual Faculty Performance Reports. Community, Environment and Policy Division, 2016 (Chair); 2017 (Chair); 2018 (Chair)

Mentor, Heidi Brown, Assistant Professor of Epidemiology and Biostatistics, Mel & Enid Zuckerman College of Public Health, University of Arizona, 2013-2016

Faculty Search Committees, 2012; 2013; 2014; 2015; 2016; 2017; 2018

Director of Graduate Studies, 2015

College Committees (current and since 2012)

Search Committee Chair, Public Health Policy, Practice, & Translational Research, Department Chair/Professor

Search Committee Chair, Associate III and Assistant I Administrative Assistants

Director, Western Region Public Health Training Center (WRPHTC), 2021-present

Director, Environment, Exposure Science and Risk Assessment Center (ESRAC), 2013-present

2022 Arizona Center for Rural Health (AzCRH) Advancing Health Equity, Addressing Disparities in Arizona (AHEAD) Advisory Committee Member

MEZCOPH Activity Informed Budget (AIB) Advisory Committee Member, 2021

2020 COVID-19 MEZCOPH Response Task Force

2019 CEPH MEZCOPH Self Study Task Force

2018 Public Health Poster Forum Judge. April 9, 2018

Research Advisory Council, 2006-2017

One Health Admissions Review Committee, 2017

MEZCOPH Curriculum Planning Committee 2016-2017

Public Health Research Poster Forum Judge. March 29, 2016

Promotion and Tenure Review Committee, 2010-2015

Search Committee, Biostatistics Faculty, 2013

Global Health and Community Development Committee, 2011-2013

University Committees (current and since 2012)

Institute for Environment and Science, Advisory board, member, 2008- present

Appointed Executive Committee Member. UA Water Quality Certificate Program, 2007-present
UA Water Sustainability Program (WSP) Academic Advisory Committee, 2007-present

Member, UA Health Sciences Strategic Planning Advisory Committee. 2018-2020

Search Committee, College of Social and Behavioral Sciences, TRIS/WEES Joint Hire in
Environmental Health, 2017-2018

One Health MPH, Executive Advisory Committee, 2015-2017

Water, Environmental, and Energy Solutions (WEES) UA Advisory Committee, 2015-2017

Water, Energy, Sustainability and Technology (WEST) Center Search Committee, 2015-2016

UA Food Safety Consortium, member 2014-2016

UA Environmental Social Scientists Workshop, 2015

AAHRPP IRB Review member, 2014

Dean's 5 Year Review Committee, 2014

Faculty Advisor. UA Thirst Project Club, 2012-2014

Institutional Review Board Committee, 2012-2014

UA Faculty Senate IT Committee, 2012-2014

UA Faculty Senator, at-Large Faculty Senate Representative, 2009-2011; re-elected 2011-2013

Graduate Interdisciplinary Program Committee on Global Change (ISPE), Faculty advisor, 2007-2012

External Committees (current and since 2012)

ASSE Certification Advisory Board. Member 2019- present

Promotion and Tenure Review, Candidate for Promotion to Full Professor, Tulane University, 2021

Promotion and Tenure Review, Candidate for Promotion to Full Professor, Drexel University, 2019

Public Health Editor, Water Conditioning and Purification International. 2010-2022

Water Quality Association (WQA) Sustainability Review Board and Certification Program Co-Chair. 2017-2020

Arizona Public Health Association. Member 2018

Promotion and Tenure Review, Candidate for Promotion to Associate Professor, Michigan State University, 2017

Advisory Panel on Emerging Contaminants, Arizona. Department of Environmental Quality. 2014-2016

DEVELOPMENT ACTIVITIES

Photoshop Generative AI Training, March 29, 2024

Adaptive Leadership Training 2022-present

R Markdown Training, March 22, 2023

Bloodborne Pathogens and Universal Precautions (OSHA Compliant) Certification, March 14, 2023

Information Security Awareness Annual Refresher Course Certification, March 13, 2023

Active Shooter Training, March 13, 2023

Institutional Conflict of Interest Training for University Administrators Certification, September 5, 2022

Preventing Harassment and Discrimination Certificate, September 6, 2023

HIPAA Annual Certification, September 5, 2022

Time and Labor: Timekeeping and the FLSA: Your Responsibilities, June 27, 2022

Conflict of Interest Required Disclosure Training Certification, June 15, 2022

RII Research Support Services Orientation, May 18, 2022

Biosafety Level 3 Protection Course Certification, April 1, 2022

Introduction to Strategic Planning Certification, October 11, 2021

FERPA Training Course Certification, August 30, 2021

CITI Certification, July 19, 2021

Teaching workshop- Group Work. OIA. August 30, 2019

Course audit, CPH 604 Applied Math in Environmental Health Sciences. Spring 2017
Making the Most of the Opening and Closing Minutes of Class Time. Teaching development
webinar training with Dr. Jim Lang. February 16, 2017

COURSES TAUGHT (since 2012)

CPH 418/518 Quantitative Human Health Risk Assessment. A course designed relative to practice and research within the risk analysis paradigm including: risk assessment, risk management and risk communication.

CPH 484/584 Fundamentals in Environmental and Occupational Health. A core course in the basics of quantitative exposure assessment and hazard identification.

CPH 575 Environmental and Occupational Health. A core course in environmental health sciences and occupational health and safety practice and research.

CPH 696r Environmental and Occupational Health Seminar. Special topics and career development in EOH.

EHS 420/520 Environmentally Acquired Illnesses. A course in emerging infections from a mixture of environmental hazard exposures.

PUBLICATIONS

Chapters in Scholarly Books (original research)

1. Suppes, L.M., K.C. Ernst, L. Abrell, **K.A. Reynolds**. 2019. Validation of questionnaire methods to quantify recreational water ingestion. *In*: E. Leoni (Ed.) Recreational Water Illnesses. MDPI. Basel, Switzerland. ISBN-978-3-03897-579-3.
<https://doi.org/10.3390/ijerph15112435> (scholarly book chapter/original research).
2. **Reynolds, K.A.** 2011. Will global warming influence emerging disease? Encyclopedia of Microbiology. *In*: A. Maczulak. (Ed.). Encyclopedia of Microbiology. Facts on File, Inc., Infobase Publishing, New York, NY.
3. **Reynolds, K.A.**, K. D. Mena. 2009. Quantitative Microbial Risk Assessment of Waterborne Disease. *In*: IOM (Institute of Medicine) Global issues in water, sanitation, and health. Washington, DC: The National Academies Press.
4. Hurst, C.J. and **K.A. Reynolds**. 2007. Sampling viruses from soil. *In*: C. J. Hurst, R.L. Crawford, J.L. Garland, D.A. Lipson, A.L. Mills, L.D. Stetzenbach (Eds.) Manual of Environmental Microbiology. Third Edition. ASM Press, Washington, D.C. ISBN-10: 1-5581-379-8 (scholarly book chapter/original research).
5. Hurst, C.J. and **K.A. Reynolds**. 2007. Detection of viruses in environmental waters, sewage, and sewage sludges. *In*: C. J. Hurst, R.L. Crawford, J.L. Garland, D.A. Lipson, A.L. Mills, L.D. Stetzenbach (Eds.) Manual of Environmental Microbiology. Third Edition. ASM Press, Washington, D.C. ISBN-10: 1-5581-379-8 (scholarly book chapter/original research).
6. **Reynolds, K.A.** 2004. Integrated cell culture/PCR for detection of enteric viruses in environmental samples. *In*: Spencer, J.F.T and Ragout de Spencer, A.L. (Eds.). Public Health Microbiology: Methods and Protocols. Methods in Molecular Biology, Vol. 268. Humana Press. Totowa, New Jersey, pp. 69-78.
7. Gerba, C.P., **K.A. Reynolds**, S.E. Dowd, and I.L. Pepper. 2001. Polymerase chain reaction for the detection of parasites and viruses. *In*: Rapid Detection Assays for Food and Water. S. Clark, K.C. Thompson, C.W. Keevil, and M. Smith (Eds.), The Royal Society of Chemistry, Cambridge, United Kingdom, pp. 49-54.

Chapters in Scholarly Books (textbooks)

1. Artiola, J.F., **K.A. Reynolds**, M.L. Brusseau. 2019. Urban and Household Pollution. *In*: R.M. Maier, I.L. Pepper, C.P. Gerba (Eds.). Environmental and Pollution Science. Third Edition. Elsevier, New York, NY.
2. Verhougstraete, M. J.D. Sexton, **K.A. Reynolds**. 2015. Recreational Water Exposure. *In*: J. Bartram. (Ed.). Handbook for Water and Health. EarthScan.
3. Roane, T.M, **K.A. Reynolds**, R.M. Maier, I.L. Pepper. 2009. Microorganisms. *In*: Environmental Microbiology. Second Edition. *In*: R.M. Maier, I.L. Pepper, C.P. Gerba (Eds.). Academic Press, New York, NY.
4. **Reynolds, K.A.** 2008. Indoor air quality. *In*: R.M. Maier, I.L. Pepper, C.P. Gerba (Eds.). Environmental and Pollution Science. Second Edition. Academic Press, New York, NY.
5. **Reynolds, K.A.** 2008. Drinking water Quality and Water Security. *In*: R.M. Maier, I.L. Pepper, C.P. Gerba (Eds.). Environmental and Pollution Science. Second Edition. Academic Press, New York, NY.
6. **Reynolds, K.A.** 2006. Indoor air quality. *In*: R.M. Maier, I.L. Pepper, C.P. Gerba (Eds.). Environmental and Pollution Science. Academic Press, New York, NY
7. **Reynolds, K.A.** 2006. Drinking water Quality and Water Security. *In*: R.M. Maier, I.L. Pepper, C.P. Gerba (Eds.). Environmental and Pollution Science. Academic Press, New York, NY.
8. **Reynolds, K.A.** and I.L. Pepper. 2000. Microorganisms in the Environment. Environmental Microbiology. (Ed.) R. Miller-Maier. Academic Press, New York, NY.

Refereed Journal Articles

1. Abney, S.E., S. Bloomfield, S. Boone, T. Cutts, C.P. Gerba, K. Ijaz, A. Lyons, J-Y Maillard, K.D. Mena, J. McKinney, G.W. Park, E. Scott, **K.A. Reynolds**, W. Rutala, S. Sattar, D. Weber, M.P. Verhougstraete, M. Williams, W. Furin, A.M. Wilson, C. Whitworth, B. Zargar. The role of fomites in virus transmission in the built environment: workshop assessment. mSphere. Accepted with revisions 01/22/25
2. Ackerley, L., S. Cooper, S. Upson, L. Gent, A. Paskey, C. Buckley, M. Spitzer, J. Sexton, J.L. Picton, **K.A. Reynolds**. The interconnection of high-touch surfaces in a public setting drives pathogen spread. Perspectives in Public Health. *Accepted with revisions 12/18/24*
3. Valenzuela, P.M., P.B. Gundy, **K.A. Reynolds**, Gerba, C.P. Viral and bacterial reduction during cold water machine washing and drying of cotton fabrics. Journal of Applied and Environmental Microbiology. *Accepted with revisions 01/04/24*

4. Ando, H. M. Murakami, M. Kitajima, **K.A. Reynolds**. 2024. Wastewater-based estimation of temporal variation in shedding amount of virus and clinically identified cases using the PRESENS model. *Environment International*. *In press*. 12/19/24 <https://doi.org/10.1016/j.envint.2024.109218>
5. Ando, Hiroki, **K.A. Reynolds**. 2024. Wastewater-based effective reproduction number and prediction under the absence of shedding information. *Environment International*. 194:December, 109128. <https://doi.org/10.1016/j.envint.2024.109128>
6. Heida, A., **K.A. Reynolds**, A. Ashraf, O.O. Ogunseye, Y. Jung, L. Shulman, L. Ikner, W. Betancourt, K.A. Hamilton, A.M. Wilson. 2024. Quantitative microbial risk assessment (QMRA) tool for modeling SARS-CoV-2 and other infection risks for wastewater treatment plant workers. *Water Research*. 260(2024): 121858. PMID: 38936269 DOI: [10.1016/j.watres.2024.121858](https://doi.org/10.1016/j.watres.2024.121858)
7. Sexton, J.D., J.L. Picton, B. Herdt, E. Black, **K.A. Reynolds**. 2024. Removal, kill, and transfer of bacteria from hands by antibacterial and non-antibacterial soaps after handling raw poultry. *Journal of Food Protection*. 87(6):100272. <https://doi.org/10.1016/j.jfp.2024.100272>
8. Abney, S.E., C.A. Higham, A.M. Wilson, M.K. Ijaz, J. McKinney, **K.A. Reynolds**, C.P. Gerba. 2024. Transmission of viruses from restroom use: a quantitative microbial risk assessment. *Food and Environmental Virology*. 16:65-78. <https://doi.org/10.1007/s12560-023-09580-1>
9. Kulik, P.K.G., M. Alperin, K.S. Todd Barrett, B. Bekemeier, P.I. Documet, K.A. Francis, C.T. Gloria, E. Healy, R. Hileman, H.W. Kenefick, A.M. Lederer, J.P.I. Leider, L.C. McCormick, L. Prechter, **K.A. Reynolds**, M.H. Rogers, B. Rose, L.M. Walkner, E.J. Scallan Walter, D.J. Zimmel, L.E. Power. 2024. The need for responsive workforce development during the pandemic and beyond: A case study of the regional public health training centers. *Journal of Public Health Management & Practice*. 30(1):46-55 <https://doi.org/10.1097/PHH.0000000000001835>
10. Wilson, A., Y. Jung, **K.A. Reynolds**. 2023. Grappling with the tradeoffs of cleaning and disinfection: A call for Targeted Hygiene. *Environmental Science & Technology*. 12;57(49):20457-20459 <https://doi.org/10.1021/acs.est.3c09144>
11. Scanlon, M.M., J.L. Gordon, **K.A. Reynolds**. 2023. Building water quality commissioning in healthcare settings: reducing *Legionella* and water contaminants utilizing a construction scheduling method. *Buildings*. 13(10), 2533. <https://doi.org/10.3390/buildings13102533>
12. Lim, C.C., J. Yoon, **K.A. Reynolds**, L.B. Gerald, A. Ault, S. Heo, M. Bell. 2023. Harmful algal bloom aerosols and human health: A scoping review. *International Committee of Medical Journal Editors. The Lancet: eBioMedicine* 93:10464. <https://doi.org/10.1016/j.ebiom.2023.104604>.

13. Jung, Y., S.E. Abney, **K.A. Reynolds**, C.P. Gerba, A.M. Wilson, 2023. Evaluating infection risks and importance of hand hygiene during the household laundry process using a Quantitative Microbial Risk Assessment approach, *AJIC: American Journal of Infection Control*. 51(12):1377-1383 <https://doi.org/10.1016/j.ajic.2023.05.017>
14. Griffin, S.C., M.M. Scanlon, **K.A. Reynolds**. 2023. Managing building water disruptions in a post-COVID world: water quality and safety risk assessment tool for academic institutions and school settings. *Buildings*. Section: Building Energy, Physics, Environment, and Systems. Special Issue: Advances in the Indoor Environments and Respiratory Health. 13(4): 921. <https://doi.org/10.3390/buildings13040921>
15. Breshears, L., S. Mata-Robles, J. Baker, **K.A. Reynolds**, J-Y Yoon. 2022. Rapid, sensitive detection of PFOA with smartphone-based flow rate analysis utilizing competitive molecular interactions during capillary action. *Journal of Hazardous Materials*. 446:130699. <https://doi.org/10.1016/j.jhazmat.2022.1306998>
16. Wilson, A.M., K. Victory, **K.A. Reynolds**, N. Cabrera, D. Larson, J. Latura, J. Sexton, J. Burgess, P. Beamer. 2022. Measured and modeled comparisons of chemical and microbial contaminants in tap and bottled water in a U.S.-Mexico border community. *ACS ES&T Water*. 2(12):2657-2667. <https://doi.org/10.1021/acsestwater.2c00400>
17. Victory, K.R., A.M. Wilson, N.L. Cabrera, D. Larson, **K.A. Reynolds**, J. Latura, P.I. Beamer. 2022. Risk perceptions of drinking bottled vs. tap water in a low-income community on the US-Mexico Border. *BMC Public Health*. 22:1712 <https://doi.org/10.1186/s12889-022-14109-5>
18. Abney, S.E., A.M. Wilson, M.K. Ijaz, J. McKinney, **K.A. Reynolds**, C.P. Gerba. 2022. Minding the matrix: The importance of inoculum suspensions in finger transfer efficiency. *Journal of Applied Microbiology*. 133:3083-3093. <http://doi.org/10.1111/jam.15758>
19. Wilson, A.M., K. Canter, S.E. Abney, C.P. Gerba, E.R. Myers, J. Hanlin, **K.A. Reynolds**. 2022. An application for relating *Legionella* shower water monitoring results to estimated health outcomes. *Water Research*. August 1;221. DOI: [10.1016/j.watres.2022.118812](https://doi.org/10.1016/j.watres.2022.118812)
20. King, M-F., A.M. Wilson, M.H. Weir, M. López-García, J. Proctor, W. Hiwar, A. Khan, L.A. Fletcher, P.A. Sleight, I. Clifton, S.J. Dancer, M. Wilcox, **K.A. Reynolds**, C.J. Noakes. 2022. Modelling fomite mediated SARS-CoV-2 exposure through PPE doffing in a hospital environment. *Indoor Air*. Jan; 32(1): e12938 <https://doi.org/10.1111/ina.12938>
21. **Reynolds, K.A.** The impact of continuously active disinfectants (CADs). 2022. ISSA (International Sanitary Supply Association) Today. January/February 2022 p. 27. <http://issatoday.issa.com/?issueID=66&pageID=29>

22. **Reynolds, K.A.**, M.P. Verhougstraete, K.D. Mena, S.A. Sattar, E. Scott, C.P. Gerba. 2022. Quantifying pathogen infection risks from household laundry practices. *Journal of Applied Microbiology*. 132:1435-1448. <https://doi.org/10.1111/jam.15273>
23. Dennis, L.K., A.M. Jung, **K.A. Reynolds**, C.H. Hsu, L. Abrell. 2021. Stability of chemical UV filters in sunscreens exposed to vehicle cabin temperatures. *American Journal of Dermatological Research and Reviews*. 4:46. ISSN:2638-1893. <https://escipub.com/Articles/AJODRR/AJODRR-2021-06-0805.pdf>
24. King, M-F., A.M. Wilson, M.H. Weir, M. López-García, J. Proctor, W. Hiwar, A. Khan, L.A. Fletcher, P.A. Sleight, I. Clifton, S.J. Dancer, M. Wilcox, **K.A. Reynolds**, C.J. Noakes. 2021. Modelling the risk of SARS-CoV-2 infection associated with self-contamination through PPE doffing in a hospital environment. *MedRxiv*. <https://www.medrxiv.org/content/10.1101/2020.09.20.20197368v1>
25. Wilson, A.M., R.M. Jones, V.L. Lugo, S.E. Abney, M.F. King, M.H. Weir, J.D. Sexton, C.J. Noakes, **K.A. Reynolds**. 2021. Respirators, face masks, and their risk reductions via multiple transmission routes for first responders within an ambulance. *Journal of Occupational and Environmental Hygiene*. 18:7:345-360. <https://doi.org/10.1080/15459624.2021.1926468>
26. **Reynolds, K.A.** 2021. The impact of a continuously active disinfectant on bacterial surface concentrations and biofilm growth. *InfectionControl.tips*. <https://infectioncontrol.tips/2021/06/01/impact-of-a-continuously-active-disinfectant-on-bacterial-surface-concentrations-and-biofilm-growth/>
27. Wilson, A.M., M-F. King, M. Lopez-Garcia, I. Clifton, J. Proctor, **K.A. Reynolds**, C. J. Noakes. 2021. Effects of patient room layout on viral accruegment on healthcare professionals' hands. *Indoor Air*. 31:1657-1672. <https://doi.org/10.1111/ina.12834>
28. **Reynolds, K.A.**, J.D. Sexton, F. Garavito, B. Anderson, J.M. Ivaska. 2021. Impact of a whole-room hypochlorous acid atomizing disinfection system on healthcare surface contamination, pathogen transfer, and labor efficiency. *Critical Care Medicine*. 3(2): e0340. <https://doi.org/10.1097/CCE.0000000000000340>
29. Wilson, A.M., M.P. Verhougstraete, P.I. Beamer, M.F. King, **K.A. Reynolds**, C. P. Gerba. 2021. Frequency of hand-to-head, -mouth and nose contacts for adults and children during eating and non-eating macro-activities. *Journal of Exposure Science and Environmental Epidemiology*. <https://doi.org/10.1038/s41370-020-0249-8>
30. Wilson, A.M., M.P. Verhougstraete, C.J. Donskey, **K.A. Reynolds**. 2021. An agent-based modeling approach to estimate pathogen exposure risks from wheelchairs. *American Journal of Infection Control*. <https://doi.org/10.1016/j.ajic.2020.06.204>

31. Chung, S., L.E. Breshears, A. Gonzales, C.M. Jennings, C.M. Morrison, W.Q. Betancourt, **K.A. Reynolds**, J.Y. Yoon. 2021. Norovirus detection in water samples at the level of single virus copies per microliter using a smartphone-based fluorescence microscope. *Nature Protocols*. 16(3): 1452-1475. <https://doi.org/10.1038/s41596-020-00460-7>
32. **Reynolds, K.A.**, J.D. Sexton, A. Norman, D.J. McClelland. 2021. Comparison of electric hand dryers and paper towels for hand hygiene: A critical review of the literature. *Journal of Applied Microbiology*. 130(1):25-39. <https://doi.org/10.1111/jam.14796> *Top 10 most downloaded paper among work published online between 1 January 2019 and 31 December 2020.
33. Wilson, A.M., M.H. Weir, S.F. Bloomfield, E.A. Scott, **K.A. Reynolds**. 2021. Modelling COVID-19 infection risk for a single hand-to-fomite scenario and potential risk reductions offered by surface disinfection. *American Journal of Infection Control*. 49: 846-848. <https://doi.org/10.1016/j.ajic.2020.11.013>
34. Wilson, A.M., M.F. King, M. Weir, J.D. Sexton, R. Canales, G. Kostov, T. Julian, C. Noakes, **K.A. Reynolds**. 2020. Evaluating a transfer gradient assumption in a fomite-mediated microbial transmission model using an experimental and Bayesian approach. *Journal of the Royal Society Interface*. <http://eprints.whiterose.ac.uk/161366/>
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WORKS IN PROGRESS

Refereed journal articles pending

1. Betancourt, W., L.A. Ikner, L. Shulman, A.M. Wilson, **K.A. Reynolds**. Assessment of SARS-CoV-2 Viability and Persistence in Sewage by In Vitro Cell Culture and Molecular Methods. DispatchEID. *To be submitted >5.21.24.*
2. Jung, Y., J.D. Sexton, **K.A. Reynolds**, C. Buckley, S.E. Upson, A. Paskey, L. Ackerley, S. Cooper, L. Gent, A.W. Wilson. 2023. Assessing how Targeted Cleaning and Disinfection in a Lobby Impacts Infection Risks for Hotel Guests. Journal of Hospitality Management. *To be submitted- June 2024*

Grant proposals in progress

CDC. M. Arora, J. Burgess, B. Rooney, **K.A. Reynolds** (co-I), K. Ernst, et al., Southwest Center for Disaster Resilience and Response. Submitted May 2024. 5% effort. \$8,942,490

NIH. K. Ernst, G. Coronado, K. Lutrick, V. Subbian, M. Walsh, D. Billheimer, L. Lin, J. Armin, T. Nuno, **K. Reynolds**, Z. Chen, A. Allen, B. Meyerson, N. Yuan, et al. Transforming Health through Research InnoVation and Equity Technical Support (THRIVES). 11.2% effort. \$6,750,000

CDC U01. K. Ellingson (PI), Arizona Surveillance for Real-Time Acute Respiratory Syndromes (AZ STARS). **Reynolds, K.A.** (co-I) 6% effort. Submitted February 2024. \$5,750,000

ARPA-H: STAMINA (Advanced Research Projects Agency for Health: A National Infrastructure for Large-Scale Standardization and Acceleration of Medical Device Innovation for Healthy Aging and Adult Health. Z. Chen (PI) et al. Abstract submitted March 2024. \$45,000,000

ARPA-H: BREATHE (Advanced Research Projects Agency for Health: Building Resilient Environments for Air and Total Health). **Reynolds, K.A.** (PI) et al., Leading the assembly of cross-campus collaborative team for August 19, 2024 submission. 15% effort. \$50,000,000

RWJF. O. Batista Leal Neto (PI), et al. Multi-modal Approach for Predicting Infection Routes in Nursing Homes. Summer submission pending.

NIH SEPA. Brown, L., S. Newton, M. Arora, Y. Varyvoda, R. Apaez, J. Sexton, A. Kilungo, A. Norman, N. Pham, S. Buxner, **K.A. Reynolds** (co-I). Stimulate, Engage, Empower (SEE) Public Health: A Collaborative, Participatory Approach to STEM-focused Learning in Public Health for Rural Communities. June 2025 submission. 4% effort. \$1,343,866

AHRQ via NIH. **Reynolds, K.A.** (co-PI), Verhougstraete, M., Sexton, J.D, Wilson, A.
Intervention assessment to reduce HAI pathogens and risks in long-term care facilities. 15% effort. Pending future submission. \$2,000,000

PRESENTATIONS

Invited presentations

Peterson, E.H., **K.A. Reynolds**. From Research to Reality: Communicating Science Effectively in Public Health. Enhancing Presentation Skills, Storytelling, and Cultural Competence. WRPHTC Future Leaders Program Webinar. November 20, 2024. Region 9 Online https://arizona.zoom.us/rec/share/UBwNm2QQYh_2ZgIM1Pvx-17_OVCM-9xMYIM9ePCjclCozDWWkFVp8CRIFQtcUktw._SEN3KulxKgbCX62.

Reynolds, K.A. Introduction to QMRA: Tracer Studies, Exposure Assessment, and Modeling. Reckitt Workshop. March 19, 2024. Montvale, NJ

Reynolds, K.A. QMRA Modeling Approaches to Quantify Infection Risks and Inform Policy Decisions. Reckitt International Medical Science Academy. March 11, 2024. Hull, UK

Reynolds, K.A., J.Y. Yoon. Smartphone and paper-based microfluidic devices for detection of PFAS waterborne contaminants. Water & Environmental Technology (WET) Center Semi-annual Meeting. February 22, 2024. Arizona State University, Tempe, AZ

Reynolds, K.A. WRPHTC and ESRAC Centers Overview. Brain Feast Event. September 23, 2023. Tucson, AZ

Reynolds, K.A. Journey of the Germ- and the Germologist. UBRP. July 19, 2023. Tucson, AZ

Reynolds, K.A. Leveraging Industry-Academic Partnerships to Advance Public Health Practice and Policy: Evaluating Infection Risks and Controls in Real-World Environments. Reckitt International Science Inside Symposium. Hull Center for Excellence. June 22, 2023. Hull, UK

Reynolds, K.A., J.Y. Yoon. Smartphone and paper-based microfluidic devices for detection of PFAS and waterborne contaminants. Water & Environmental Technology (WET) Center Semi-annual Meeting. January 23, 2023. Tucson, AZ

Reynolds, K.A. Perspectives for Arizona-France Research Cooperation on Health and Environmental Change. Panelist. Health and Environmental Change: Pushing Research Boundaries through Arizona-France Cooperation. iGlobes Interdisciplinary and Global Environmental Studies. November 16, 2022. Tucson, AZ

- Reynolds, K.A.** Application of QMRA in Assessing Pathogen Risks from Fomites. Workshop on the Role of Fomites in the Spread of Viruses in the Built Environment. November 2-3, 2022. Atlanta, GA
- Reynolds, K.A.** How Do You Solve a Problem Like Germs? Arizona Department of Health Services. Online Sanitarian Conference. November 2-3, 2022
- Reynolds, K.A.** One Health Fall Symposium. Discussion Panelist. September 28, 2022. Tucson, AZ
- Reynolds, K.A.** Utilizing Quantitative Microbial Risk Assessment (QMRA) Modelling to Quantify Fomite Roles in Disease Transmission: Tracer Studies and Exposure Assessment. Virtual Workshop on the Role of Fomites in the Spread of Viruses in the Built Environment. August 30, 2022. Tucson, AZ
- Reynolds, K.A.** Utilizing Quantitative Microbial Risk Assessment (QMRA) Modelling to Quantify Fomite Roles in Disease Transmission: Estimating Targeted Risk Thresholds. Virtual Workshop on the Role of Fomites in the Spread of Viruses in the Built Environment. August 23, 2022. Tucson, AZ
- Reynolds, K.A.** Evaluating Hygiene Intervention Impacts on Infectious Disease Transmission: Utilizing Microbial Tracers and QMRA Modelling to Quantify Mitigation Effects and Estimate Human Health Outcomes. Reckitt Professional Seminar. January 24, 2022. 58 participants
- Reynolds, K.A.** Tucson Fallen Fire Fighters Memorial. January 22, 2022. Tucson, AZ
- Reynolds, K.A.** Continuously Active Disinfectants: Addressing Challenges of Surface Contamination and Biofilm Growth. Cleaning, Disinfection and Sterilization Conference, Association for Professionals in Infection Control and Epidemiology (APIC). October 28-29, 2021
- Reynolds, K.A., C.P. Gerba, B. Adair.** Infection Control and Risks: SARS-CoV-2 and other Virus Expertise at UArizona. September 14, 2021. Tucson, AZ
- Reynolds, K.A.** Risk Communication and Building Public Trust. Water Quality Association (WQA) Convention & Exposition. July 28-30, 2021. Las Vegas, NV.
- Reynolds, K.A.** Continuously Active Disinfectants: Addressing Challenges of Surface Contamination. TIPS Master Class. Zoom online. (approved for 1.0 contact hour of continuing education credits for nurses). June 22, 2021; 280 registrants, 1,758 views.
- Reynolds, K.A.** Evaluating Hygiene Intervention Impacts on COVID-19 Infections. Universidad Popular Autonoma del Estado de Puebla (UPAEP). Zoom webinar. June 8, 2021

- Reynolds, K.A.** Home Hygiene: Keeping Your Home Clean, Safe, and Healthy. UAHS Wellness Wednesdays. June 9, 2021
- Reynolds, K.A.** Hospitality Re-Entry: Hygiene and Human Health: Utilizing Microbial Tracers and QMRA Modelling to Quantify Infection Risks and Intervention Impacts. RESTRUCT Symposium. May 17, 2021.
- Reynolds, K.A.** How Clean is Clean? Environmental Risks of HAIs. Munich RE Specialty Insurance Healthcare Risk Management Webinar. January 27, 2021. <https://attendee.gotowebinar.com/recording/3846126171433690886> (approved for 1.0 contact hour of continuing education requirements of ASHRM FASHRM (Fellow) and DFASHRM (Distinguished Fellow) and Certified Professional in Healthcare Risk Management (CPHRM) renewal
- Reynolds, K.A.** COVID-19 Occupational Assessment and Transmission Prevention. MEZCOPH Community Advisory Board. Zoom webinar. May 5, 2020
- Reynolds, K.A.** COVID-19 Workplace Prevention. YWCA Southern Arizona Small Businesses. Zoom Webinar; Facebook Live. April 30, 2020
- Reynolds, K.A.** Video to Guide EMS Exposure Reduction. Joint Public Safety Sector (PSS) Council and Healthcare and Social Assistance (HCSA), NORA Council Meeting. Sustaining Emergency Medical Services during COVID-19. March 26, 2020
- Sexton, J.D., **K.A. Reynolds.** Smartphone Water Quality Monitoring Field Demonstration. AZ Water Research Symposium, Gateway Community College, Phoenix, AZ. January 9, 2020.
- Reynolds, K.A., J.Y. Yoon, S. Chung.** Smartphone for Water Quality: Smartphone Detection from Paper Microfluidics for Monitoring Water Quality. National Science Foundation Water & Environmental Technology (WET) Center Semi-annual Meeting. Tempe, AZ. December 6, 2019.
- Reynolds, K.A., J.D. Sexton.** Getting Down and Dirty with Environmental Health Concerns. Keeping Up With Public Health podcast. Western Region Public Health Training Center. September 25, 2019. <https://www.listennotes.com/podcasts/keeping-up-with/episode-4-getting-down-and-vQLauNbE3fm/>
- Reynolds, K.A., A.M. Wilson, R.A. Canales.** Estimating effects of human behaviors and cleaning interventions on infection risk using QMRA. Canadian Standards Association. Webinar. Vancouver, BC, Canada. November 19, 2018.
- Reynolds, K.A.** Household POU Pathogen Study. WQA Radio Podcast, “In the Know” WQRF Webinar. November 14, 2019. <https://soundcloud.com/user-141188699/wqa-radio-148-kelly-reynolds/s-wjbbW>

- Yoon, J.Y., **K.A. Reynolds**. Field Testing of Real-Time Detection of Human Pathogenic Viruses Using Smartphone Technology. Water and Environmental Technology Center. December 12, 2019.
- Reynolds, K.A.**, J.Y. Yoon, S. Chung. Smartphone Norovirus Detection in Water using Paper Microfluidics. WEST Center Industry Meeting. November 18, 2019.
- Reynolds, K.A.** In the Know Series: Household Point-of-Use Pathogen Study. Water Quality Research Foundation Webinar. November 14, 2019.
- Reynolds, K.A.** QMRA Work Group Update. Healthcare Infection Transmission Systems (HITS) Conference. Nashville, TN. September 14, 2018.
- Wilson, A.M., R.A. Canales, **K.A. Reynolds**. Utilizing Modeling Approaches to Estimate Infection Risks, Intervention Efficacies, and Microbial Reductions Needed to Meet Risk Targets. Healthcare Infection Transmission Systems (HITS) Conference. Nashville, TN. September 14, 2018.
- Reynolds, K.A.** Environmental Health Capacity Building. Northern Pacific Environmental Health Association (NPEHA) Conference. Guam. July 19, 2018.
- Verhougstraete, M.P., J. Gerald, **K.A. Reynolds**, C.P. Gerba. Cost-Benefit of Point of Use Devices for Lead Reductions. American Water Works Association. Denver, Co. June 11, 2019.
- Reynolds, K.A.** Water Quality Monitoring and Cost Benefits of POU Devices. 2019 Water Quality Association Conference and Exposition. Las Vegas, NV. April 24, 2019.
- Wilson, A.M., **K.A. Reynolds**, M.P. Verhougstraete, R.A. Canales. Using Simulation Modeling to Estimate the Effect of Human Behaviors and Cleaning Interventions on Infection Risk. American Society of Safety Engineers (ASSE). Tempe, AZ. April 19, 2018
- Reynolds, K.A.** Study Briefs: Cost Benefit of POU Filters; Household POU Filters for Monitoring of Tap Water. Water Quality Association Annual Convention and Exposition. Denver, CO. March 28, 2018.
- Reynolds, K.A.** Strategic Plan for Future Research Initiatives Advancing the POU/POE Industry. Water Quality Research Foundation Development Luncheon. Keynote. Water Quality Association Annual Convention and Exposition. Denver, CO. March 25, 2018.
- Reynolds, K.A.** Household POU Filters: Tools for Long-term, Large Volume Monitoring of Tap Water Quality and Human Health Risks. Water Quality Association Annual Convention and Exposition. Denver, CO. March 25, 2018.

- Reynolds, K.A., J.Y. Yoon.** Monitoring Water Safety using Smartphone Detection from Paper Microfluidics. 2017. NSF and the Water, Environment and Technology Center Annual Meeting. Tempe, AZ. December 6, 2017.
- Reynolds, K.A.** Valuation of Intervention Impacts in Healthcare using the Evidence Based Science of Quantitative Risk Assessment Modeling. Environment Hygiene Interest Group (EHIG) for Infection Prevention and Control Canada (IPAC). Webinar. November 14, 2017.
- Reynolds, K.A.** Review of the Risk, Communication and Perception of the Santa Clarita Valley Water Softener Ban. Pacific Water Quality Association (PWQA) Annual Meeting. Newport Beach, CA. October 3, 2017.
- Reynolds, K.A.** Surface Decontamination: Challenges and Perspectives. Healthcare Infection Transmission Consortium. Ann Arbor, MI. September 13, 2017.
- Reynolds, K.A., C. Greene.** Catalyst for Change: Overview of the Healthcare Infection Transmission Systems (HITS) Consortium. Ann Arbor, MI. September 13, 2017.
- Reynolds, K.A.** Review of the Risk, Communication, and Perception of the Santa Clarita Valley Water Softener Ban. WQA Annual Leadership Conference. San Diego, CA. September 12, 2017.
- Reynolds, K.A.** Waterborne Threats in the U.S.: Understanding the Impact of Persistent and Emerging Contaminants. Culligan Dealers Association of North America, Inc. (CDNA) Convention and Product Fair 2017. St. Louis, MO. April 26, 2017.
- Reynolds, K.A.** Santa Clarita Water Softener Ban and Agricultural Impacts. Water Quality Association Convention and Exposition, Regional and State Government Affairs Committee. Orlando, FL. March 28, 2017.
- Pearce-Walker, J., J.D. Sexton, M.P. Verhoughstraete, **K.A. Reynolds, K.** Bright. Enteric Viruses as New Indicators of Human and Cattle Fecal Contamination of Irrigation Water. Water and Energy Sustainable Technology Center, University of Arizona. December 12, 2016.
- Reynolds, K.A., J.Y. Yoon, S. Chung.** Norovirus Detection Using Fluorescence Microscopy. NSF and the Water, Environment and Technology Center Annual Meeting. Tempe, AZ. December 8, 2016.
- Reynolds, K.A.** Smartphone for Water Quality: Smartphone Detection from Paper Microfluidics for Monitoring Water Safety. Arizona Water Conference. Phoenix, AZ. November 4, 2016.
- Reynolds, K.A.** Keynote speaker. Water Threats: Known and Unknown. PHSI Dealer Meeting. Las Vegas, NV. October 6, 2016.
- Reynolds, K.A.** Quantifying the Impact of Environmental Services in Infection Prevention: Use of Risk Assessment Modeling Tools to Evaluate Interventions in Infection Control.

Association for the Healthcare Environment (AHE) Exchange 2016. Pittsburgh, PA. September 28, 2016.

Reynolds, K.A., R.A. Canales. Return on Investment Models for Hand Hygiene Compliance Monitoring Systems and Healthcare Acquired Infection Prevention. 43rd Annual Educational Conference of the Association for Professionals in Infection Control (APIC), Breakfast Symposium. Charlotte, NC. June 13, 2016.

Reynolds, K.A. Water and Your Health. The Third Annual Environmental Science and Health Youth Conference. Tucson, AZ April 28, 2016.

Reynolds, K.A. Keynote speaker. Waterborne Pathogens: Emerging Issues in Monitoring, Treatment and Control. Multipure Annual Conference and Exposition. Henderson, NV. April 16, 2016.

Reynolds, K.A. How to Work with PR and the Media. Mel & Enid Zuckerman College of Public Health Faculty Development Meeting. Tucson, AZ February 12, 2016.

Reynolds, K.A. 2016 Arizona Water Research Workshop. Smartphone App and Risk Assessment Model Development. Tempe, AZ, January 14, 2016.

Reynolds, K.A., Germ Geography: Understanding Public Infection Spread. GOJO/Essendant Conference. San Diego, California. December 7, 2015.

Reynolds, K.A., J.Y. Yoon. Smartphone for Water Quality: Smartphone Detection from Paper Microfluidics for Monitoring Water Safety. Water and Environmental Technology Center/ National Science Foundation industry/University Cooperative Research Center Annual Meeting. Tucson, AZ. December 10, 2015.

Reynolds, K.A. Invited Speaker. Mel & Enid Zuckerman College of Public Health Scholarship Luncheon. Arizona Inn, Tucson, AZ, October 30, 2015.

Reynolds, K.A., L. Lybert, J.D. Sexton. Evaluation and Control of Infectious Microbes in Healthcare Environments: New Evidence for Best Practices. AHE Exchange 2015. Grapevine, TX, September 21, 2015.

Reynolds, K.A. Invited Participant. Environmental Hygiene: Ebola and Other Emerging Pathogens in Healthcare. Centers for Disease Control and Prevention Headquarters. Atlanta, GA, September 14, 2015.

Reynolds, K.A. WQA Research Final Report: Boil Water Notices in the U.S., 2012-2014. Water Quality Association Mid-year Meeting. Tucson, AZ, September 2, 2015.

Reynolds, K.A. M.P. Verhoughstraete, A.H. Tamimi, C.P. Gerba. Point-Of-Use Water Treatment Cost-Effectiveness Analysis. Water Quality Association Mid-year Meeting. Tucson, AZ, September 2, 2015.

- Reynolds, K.A.** Fourth conference of the Microbiology of the Built Environment series. Boulder, CO, July 15-18, 2015.
- Reynolds, K.A.,** L. Lybert, J.D. Sexton. Rapid Microbial Tracer Movement to Soft Surfaces in Patient Care Areas and the Role of Mixed Surfaces in Infection Prevention. APIC, Nashville, TN, June 28, 2015
- Reynolds, K.A.** WQA Research Updates: Boil Water Notices in the U.S., 2012-2014. Las Vegas NV, April 21, 2015.
- Reynolds, K.A.** Risky Behaviors. (How Personal Perceptions Drive Fears and Behaviors) Desert Produce Safety Collaborative Conference. Yuma, AZ, March 31, 2015
- Reynolds, K.A.** Can You Risk It? (Use of Tools in Quantitative Risk Assessment to Evaluate Food Safety Challenges and Solutions). Desert Produce Safety Collaborative Conference. Yuma, AZ, March 30, 2015
- Reynolds, K.A.** Fluoride Risk Assessment/Endetec Monitoring of Coliform Bacteria in Water/ Smartphone Microfluidic Water Quality Monitoring. Tucson Water/University of Arizona Project Updates. Citizen's Water Advisory Committee. Technical /Planning and Policy Subcommittee. Tucson, AZ, March 25, 2015.
- Reynolds, K.A.** Waterborne Pathogen Monitoring. Environmental Health Sciences Seminar Series. February 18, 2015
- Victory, K.R., N. Cabrera, D. Larson, **K. A. Reynolds**, J. Latura, P.I. Beamer. Risk perception of drinking water quality in a US-Mexico Border community. Society for Risk Analysis. Denver, CO, December 7, 2014
- Reynolds, K.A.** Waterborne pathogens: Emerging issues in monitoring, treatment, and control. Maricopa County Waterborne Disease Taskforce. Phoenix, AZ, October 30, 2014
- Reynolds, K.A.** The sexy side of risk assessment. 5th Annual Food Safety Conference: Food Safety and One Health. Tucson, AZ, October 10, 2014
- Reynolds, K.A.** Morning session moderator- speakers' panel discussion. 5th Annual Food Safety Conference: Food Safety and One Health. Tucson, AZ, October 10, 2014
- Reynolds, K.A.** Soft surface infection prevention. McKesson Webinar Wednesdays. September 2014. CEU credits offered.
- Reynolds, K.A.** Trends in Environmental Hygiene: Preventing and Controlling Infections. Arizona Health Care Association's Annual Conference & Trade Show. Scottsdale, AZ. August 20, 2014

- Reynolds, K.A.** Case Studies in Environmental Risk Assessment: Successful translation from the field to public health practice. 3rd Annual Sloan Foundation Meeting on Microbiology of the Built Environment. Boulder, CO, June 5, 2014 (Plenary)
- Reynolds, K.A.** HAI Prevention and Control: Soft Surface Decontamination. Medical World Americas Conference. Houston, TX, April 29, 2014
- Victory, K.R., N. Cabrera, D. Larson, **K.A. Reynolds**, J. Latura, P.I. Beamer. Risk perception of drinking water quality and in a US-Mexico Border community. Risk, Perception, and Response Conference. Harvard Center for Risk Analysis. Boston, MA, March 20-21, 2014
- Reynolds, K.A.** Podcast. Long-Term Care Facility Infections. Long Term Living. 2014
- Reynolds, KA.** New Trends in Environmental Hygiene: Decontaminating Soft Surfaces. Infection Control Today (ICT) Webinar. March 2014-2015. CE credits offered.
- Reynolds, K.A.** Infection Control Today Q &A on Environmental Contamination. 2014
- Reynolds, KA.** New Trends in Environmental Hygiene: Decontaminating Soft Surfaces. Association for the Healthcare Environment (AHE) Webinar 2013-2014. CE credits offered.
- Reynolds, KA.** Decontaminating Textiles and Other Soft Surfaces: Evidence-Based Recommendations. Association for the Healthcare Environment (AHE) Exchange 2013 Conference. Indianapolis, IN, 2013
- Suppes, L.M., K.C. Ernst, C.P. Gerba, **K.A. Reynolds**. Aquatic Environmental Exposure and Operation Questionnaire Standardization and Validation. 5th International Conference Swimming Pool and Spa. Rome, Italy. April 2013
- Suppes, L.M. and **K.A. Reynolds**. Development and Evaluation of a Swimming Pool Water Exposure Assessment Tool. Arizona County Directors of Environmental Health Services Association. Southwest Environmental Health Conference, Laughlin, NV. January 2013
- Reynolds, K.A.** Human Enteric Pathogens: Emerging Issues in Transmission, Monitoring and Control. International Flavors and Fragrances, Inc. December 2012
- Reynolds, K.A.** Superbug: The Emergence of MRSA. UA Campus Recreation, Lunchtime Lecture Series. Tucson, AZ. November 2012
- Reynolds, K.A.,** R.G. Sinclair, R.A. Canales, M. Molina, M.E. Penny. Using science to evaluate effects of the arts: Microbiological study of household hygiene conditions. Session 3350.0, Innovations in International Health 1. American Public Health Association's (APHA) 140th Annual Meeting and Exposition. San Francisco, CA, October 2012

- Suppes, L.M., **K.A. Reynolds**. Standardization of Health Impact Studies Due to Aquatic Environmental Exposures. 9th annual World Aquatic Health Conference in Norfolk, VA, October 2012
- Reynolds, K.A.** Human Enteric Pathogens: Emerging Issues in Transmission, Monitoring and Control. MEZCOPH Community Advisory Board Retreat. Tucson, AZ, March 2012
- Reynolds, K.A.** Waterborne Pathogens: Emerging Issues in Monitoring, Treatment and Control. Water Quality Association, Aquatech USA. Las Vegas, NV, March 2012
- Reynolds, K.A.** Foodborne Routes of *Clostridium difficile* Infections. Food Safety Retreat. University of Arizona, Tucson, AZ, November 2011
- Reynolds, K.A.** Waterborne Pathogens: Monitoring, Treatment and Emerging Technologies. 3M Corporation. Meriden, CT, October 2011
- Reynolds, K.A.** Occupational Risks and Mitigation of MRSA Exposures for Fire Service Administrative Staff. Northwest Fire Department. Tucson, Arizona, August 2011
- Reynolds, K.A.** Risks and Myths of Environmental Disease Transmission. Arizona Department of Health Services (ADHS), Brownbag Workshop. Phoenix, Arizona, March 2011
- Reynolds, K.A.** Waterborne Pathogen Monitoring. University of Arizona/ Institute of the Environment, Environmental Breakfast Club, March 2011
- Reynolds, K.A.** MRSA in the Firehouse. UMC/Santa Cruz County EMS Rounds. Nogales, AZ, February 2011
- Reynolds, K.A.** MRSA and Other Emerging Germs. Southern Arizona Safety Council and City of Tucson Quarterly Safety Meeting. Tucson, AZ, February 2011
- Reynolds, K.A.** Impact of Bleach on the Reduction of *Salmonella* in Households in Mexico. Clorox Scientific Advisory Board Meeting. San Francisco, CA, May 2010
- Reynolds, K.A.** Public Health Risk Assessment of Waterborne Disease. Emerging Pathogens in Water Workshop. Water Sustainability Program. Tucson, AZ, March 2010
- Plenary Speaker. **Reynolds, K.A.** Environmental Health Risks for Rural Populations. National Rural Health Association 16th Annual Rural Multiracial and Multicultural Health Conference. Tucson, AZ, December 2010
- Reynolds, K.A.** Mitigation of Nosocomial Disease Transmission – Targeting Surface Contamination and Airborne Exposure Routes. Arizona Rural Quality Network Group, December 2010

- Reynolds, K.A.** Controlling MRSA Transmission in First Responders. Arizona EMS Working Group, December 2010
- Reynolds, K.A.** The Fate of *Clostridium difficile* in Treated Wastewater Systems. National Science Foundation, Water and Environmental Technology Center Conference. Tucson, AZ, December 2009
- Reynolds, K.A.** Building Infection Control in the Fire Station. University of Washington Department of Environmental and Occupational Health Sciences seminar series. Seattle, WA, December 2009
- Reynolds, K.A.** Infectious Disease: How to Protect Yourself. Workshop. Twentieth Symposium on the Occupational Health and Hazards of the Fire Service. International Association of Fire Fighters. Los Angeles, CA, November 2009
- Reynolds, K.A., E. Nied.** MRSA Exposure Assessment in First Responders. Current Concepts in Emergency Medicine. Phoenix, AZ, February 2009
- Sexton, J.D., **K.A. Reynolds**, E. Nied. Infectious Diseases and Your Emergency Vehicles. Fire Department Safety Officers Association. Orlando, FL. January 2009
- Nied, E., **K.A. Reynolds**, W.F. Peate. Communicable Diseases and MRSA Study. Fire Department Safety Officers Association. Orlando, FL. October 2008
- Reynolds, K.A.** Infectious Disease Training. Fire and Emergency Manufacturers and Services Association Annual Meeting. Tucson, AZ, October 2008
- Reynolds, K.A.** Quantitative Microbial Risk Assessment: State of the Art. Global Issues in Water, Sanitation, and Health. Forum on Microbial Threats, Board on Global Health, Institute of Medicine. Washington, D.C. September 2008
- Reynolds, K.A.** Invisible Intruders: Evaluating the Waterborne Disease Burden in the U.S. and Arizona. Arizona Public Health Association 80th Annual Meeting. Tucson, AZ, September 2008
- Reynolds, K.A.** Infectious Disease Guidelines and MRSA. Fire-Rescue International Training Workshop. Denver, CO, August 2008
- Reynolds, K.A.** Preventing MRSA in the Fire House. 2008 Fire Service Leadership Conference. Glendale, AZ, July 2008
- Reynolds, K.A.** Integrated Capture and Spectroscopic Detection of Viruses. Undergraduate Biology Research Program. Tucson, AZ, June 2008
- Reynolds, K.A.** Building Infection Control into Fire Stations. Station Style Conference. Phoenix, AZ, April 2008

- Reynolds, K.A.** Keynote speaker, How to Stay Healthy in a World of Emerging Infections. Arizona Public Health Luncheon. Tucson, AZ, April 2008
- Reynolds, K.A.** Point-of-Use Drinking Water Devices for Assessing the Extent of Microbial Contamination in Finished Water and Distribution Systems. S. Miles, K. Reynolds, I. Pepper. NSF-WQC Fall Conference. Phoenix, AZ, December 2007
- Reynolds, K.A.** Risk Assessment Endpoints. 107th meeting of the American Society for Microbiology. Toronto, Canada, May 2007
- Reynolds, K.A.** Emerging Contaminants and Food Safety. 107th meeting of the American Society for Microbiology. Toronto, Canada, May 2007
- Reynolds, K.A.** Methods of Virus Detection in the Environment. K. Reynolds. Training workshop, Water Quality Managers. Tucson, AZ, May 2007
- Reynolds, K.A.** The Fight against Germs. Health and Wellness Workshop. Puerto Rico, March 2007
- Reynolds, K.A.** The Healthy Home. World of Moms workshop series. San Antonio, Tampa, San Francisco, Phoenix, Philadelphia, Atlanta, Portland, Boston, August/September 2006
- Reynolds, K.A.** Cleaning up the Classroom. Elementary School Teachers workshop series. San Antonio, Tampa, San Francisco, Phoenix, Philadelphia, Atlanta, Portland, Boston, August/September 2006
- Reynolds, K.A.** Emerging Foodborne Pathogens: What's on the Horizon? Arizona Maricopa County Cooperative Extension Food Safety 2010 Conference. Phoenix, AZ, July 2006
- Reynolds, K.A.** Noninvasive Cell Spectroscopy for the Detection of Human Viruses in Water. NSF-WQC Conference. Tempe, AZ, July 2006
- Reynolds, K.A.** Laundry Microbial Research. Home Appliance Technology Fair. Samsung, Inc. New York City, March 2006
- Reynolds, K.A.** Emerging Contaminants in Drinking Water. Water Quality Association Annual Conference. Chicago, IL, March 2006
- Reynolds, K.A.** The Significance of Emerging Waterborne Pathogens. Water Quality Association Aquatech USA. Chicago, IL, March 29, 2006

Submitted presentations

- Wilson, A.M., N. Pham, P. Spicka, M.M. Fryd, M.S. Haas, D.M. Falbo, H. Jiang, A. Ashraf, **K.A. Reynolds**. Computational fluid dynamics and QMRA modelling of influenza A virus and rhinovirus transmission in a shared children's bedroom. Society for Risk Analysis (SRA) Annual Meeting. December 9, 2024. Austin, TX
- Newman, J., S. Upson, S. Malik, L. Gent, L. Ackerley, C. Buckley, R. Saha*, J. Sexton, A. Norman, **K. Reynolds**. Shared spaces, shared germs: Breaking the chain of infection with Targeted hygiene. 17th European Health Conference. Lisbon, Portugal. November 13-15, 2024
- Newman, J., S. Malik, P. Aluko, S. Upson, C. Buckley, J. Sexton, H. Davies, L. Vale, **K. Reynolds**. Health & wealth: Targeted hygiene reduces the health economic burden of workplace infections. 17th European Health Conference. Lisbon, Portugal. November 13-15, 2024
- Krause, C.M., Stoica, A. and **K. Reynolds**. Training preferences of health departments' emergency preparedness and epidemiology staff to inform public health workforce development. CityMatCH Leadership & MCH Epidemiology Conference. Seattle, Washington. September 9-11, 2024
- Ackerley, L., S. Malik, S. Upson, L. Gent, J. Newman, C. Buckley, R. Saha, J. Sexton, A. Norman, L. Vale, **K. Reynolds**. Shared spaces, shared germs: breaking the chain of infection with smart hygiene. 17th European Public Health (EPH) Conference. Lisbon, Portugal. November 12-15, 2024.
- Ackerley, L., S. Malik, J. Newman, L. Gent, Patricia Aluko, J. Sexton, **K. Reynolds**. Boosting health & wealth: using targeted hygiene to reduce the health economic burden of infections. 17th European Public Health (EPH) Conference. Lisbon, Portugal. November 12-15, 2024.
- Aluko P., J. Newman, J. Bainbridge, H. Davies, S. Malik, A. Dymond, M. Garrett, L. Gent, C. Buckley, I. Haruna, S.E. Upson, Y. Jung, J. Sexton, L. Vale, K. Reynolds. Desk-sharing in workplaces: Economic analysis of targeted hygiene intervention (THI) in reducing risk of common infections. Health Economics Conference. November 2024
- Varyvoda, Y. **K.A. Reynolds**, F.A. von Hippel. The One Health Occupational Outlook. 2nd International One Health Conference 2023. Barcelona, Spain October 19-20, 2023.
- Upson, S., S. Cooper, L. Ackerley, L., L. Gent, C. Buckley, Y. Jung, J.D. Sexton, M.E. Spitzer, **K.A. Reynolds**, A.M. Wilson. Using Targeted Hygiene to disrupt the journey of the germ and reduce risk of infection. 15th Annual Conference on Infection Prevention (IP2023). Poster. Liverpool, England. October 17-19, 2023.
- Ackerley, L., Y. Jung, S. Cooper, S. Upson, L. Gent, C. Buckley, M.E. Spitzer, J.D. Sexton, J.L. Picton, B.T. Miura-Akagi, **K.A. Reynolds**, A.M. Wilson. Targeted Hygiene reduces surface transmission and infection risk for respiratory viruses. European Public Health Conference.

Dublin, Ireland. 2023. European Journal of Public Health published abstract:
doi: [10.1093/eurpub/ckad160.996](https://doi.org/10.1093/eurpub/ckad160.996)

Ackerley, L., S. Cooper, S. Upson, A. Paskey, L. Gent, C. Buckley, M.E. Spitzer, J.D. Sexton, J.L. Picton, **K.A. Reynolds**, A.M. Wilson. Who touched that? Interconnection of high-touch surfaces drives pathogen spread in public spaces. European Public Health Conference. Dublin, Ireland. 2023.

Jung, Y., J.D. Sexton, **K.A. Reynolds**, C. Buckley, S. Upson, L. Ackerley, L. Gent, A.M. Wilson. Assessing Impacts of Lobby Cleaning and Disinfection on Infection Risks for Hotel Guests. ASM Microbe. Poster. Houston, TX. June 17 & 18, 2023.

Spitzer, M.E., J.D. Sexton, J.L. Picton, B.T. Miura-Akagi, C. Buckley, S. Upson, S. Cooper, L. Ackerley, L. Gent, **K.A. Reynolds**. Cleaning smarter, not harder: Tracking the journey of the germ and quantifying targeted hygiene impacts in public spaces. American Society for Microbiology, ASM Microbe. Poster and rapid fire oral presentation. Houston, TX. June 17 & 18, 2023.

Jung, Y., J.D. Sexton, **K.A. Reynolds**, C. Buckley, S. Upson, L. Ackerley, L. Grant, A.M. Wilson. How much infection risk could surface cleaning reduce for hotel lobby users? Public Health Poster Forum. Tucson, AZ. 2023.

Yoon, J.Y., L.E. Breshears, S. Mata-Robles, **K.A. Reynolds**. Flow rate profile based PFAS detection on smartphone- and paper-based microfluidics. 2022 IEEE Research and Applications of Photonics in Defense Conference (RAPID). Miramar Beach, FL. October 12-14, 2022

Jung, Y., A.M. Wilson, **K. A. Reynolds**. What Risks Does the Residential Laundry Process Pose?: A Quantitative Microbial Risk Assessment (QMRA) Study. APIC 2022 Annual Conference. Indianapolis, IN. June 13, 2022. Published abstract:
<https://www.ajicjournal.org/action/showPdf?pii=S0196-6553%2822%2900285-1>

Jung, Y., A.M. Wilson, C. P. Gerba, **K. A. Reynolds**. **Handwashing while doing laundry: how much risk can we reduce?** Public Health Poster Forum. Tucson, AZ. March 2022

Breshears, L., S.M. Robles, **K.A. Reynolds**, J.Y. Yoon. Flow rate profile based PFOA detection on paper-based microfluidics using competitive interactions with albumin and nitrocellulose. Oral and poster presentations. American Chemical Society (ACS). Atlanta, GA. August 22-26, 2021

Wilson, A., M-F. King, M. Lopez-Garcia, I. Clifton, J. Proctor, **K. Reynolds**, C. Noakes. Integrating CFD and exposure modeling for estimating viral exposures at the air-surface interface. 2021 AIAA AVIATION Forum and Exposition Conference Proceedings. Virtual. August 2-6, 2021

- Lugo, V.L., J.D. Sexton, **K.A. Reynolds**. Use of a Germicidal Ultraviolet (UVC) Light on Porous and Non-porous Textiles to Reduce *Staphylococcus aureus* and *Escherichia coli* Contamination in Emergency Medical Services (EMS) Vehicles. Virtual Conference on Zoom. American Society of Safety Professionals (ASSP)- American Industrial Hygiene Association (AIHA) Joint Conference. April 12, 2021
- Abney, S.E., A.W. Wilson, M.K. Ijaz, **K.A. Reynolds**, C.P. Gerba. Infectious disease quantitative assessment: risk of infection through fomite-mediated transmission in a restroom. ENVS Departmental Conference: Envision. Tucson, AZ. 2021
- Cooksey, E., K. Hamilton, A. Zimmer-Faust, **K. Reynolds**, J. Burgess, M. Verhoughstraete. Estimating *V. parahaemolyticus* illness risk from Pacific oysters harvested in Southern California using a quantitative microbial risk assessment framework. MEZCOPH Public Health Poster Forum. Tucson, AZ. 2021
- Morales, A.A., M. Ramirez-Andreotta, C.P. Gerba, **K.A. Reynolds**. Sanitary sewer overflows in Ambos Nacos- a quantitative microbial risk assessment at Naco elementary. American Society of Agronomy; Crop Science Society of America and Soil Science Society of America conference. ASA, CSSA & SSSA International Annual Meeting- Virtual, November 9-13, 2020
- Wilson, A.M., M. Felipe-King, C. Noakes, **K.A. Reynolds**. Modelling the influence of room orientation and care type on differences in norovirus exposure via an air-surface interface transmission route. Oral presentation at Indoor Air Conference. Online. November 1, 2020
- Wilson, A.M., King, M-F., Jaykus, L-A., Escudero-Abarca, B., Gerba, C.P., Canales, R.A., Sexton, J.D., Clifton, I., Proctor, J., Noakes, C.J., & **Reynolds, K.A.** Defining “clean” in indoor environments with a QMRA risk-based approach: The need for multi-route exposure assessment. Indoor Air Conference. Online. November 1, 2020
- Wilson, A.M., M. Felipe-King, M.H. Weir, M.P. Verhoughstraete, P.I. Beamer, **K.A. Reynolds**. COVID-19 Infection Risk: Are there differences between eating and non-eating behaviors? Poster presented at the International Society of Exposure Science (ISES). 2020 Annual Meeting. Online. September 21-22, 2020 *First place poster.
- Wilson, A.M, M.P. Verhoughstraete, P.I. Beamer, M. Felipe-King, **K.A. Reynolds**, C.P. Gerba. Characterizing hand-to-face contact frequency and sequence for adults. Oral presentation at the International Society of Exposure Science (ISES). 2020 Annual Meeting. Online. September 21-22, 2020
- Wilson, A.M., E.R. Myers, J. Hanlin, **K.A. Reynolds**. NSF Legionella Conference 2020. Chicago, IL. August 19-21, 2020
- Lugo, A. A.M. Wilson, **K.A. Reynolds**. Evaluating the use of ultraviolet light to reduce transmission of methicillin-resistant *Staphylococcus aureus* in emergency medical service

vehicles. Poster Presentation. APIC 2020 Annual Conference. Phoenix, AZ. June 10-12, 2020.

Wilson, A.M., M. Felipe-King, C. Noakes, **K.A. Reynolds**. Comparing contaminant transfer potential of repetitive hand-to-fomite contacts for gloved and ungloved hands using a fluorescent powder. Poster Presentation. APIC 2020 Annual Conference. Phoenix, AZ. June 10-12, 2020

Sexton, J.D., **K.A. Reynolds**, F. Garavito, B. Anderson, J. Ivaska. Whole-room hypochlorous acid atomizing disinfection system on healthcare surface contamination and transfer. Poster Presentation. APIC 2020 Annual Conference. Phoenix, AZ. June 10-12, 2020

Wilson, A.M., M.P. Verhoughstraete, P.I. Beamer, M.F. King, K.A. Reynolds, C.P. Gerba. Characterizing frequency and sequence of adults' and children's hand-to-head, -mouth, -eyes, and -nose contacts. Poster session, UA, Discover BIO5 Research to Innovation Showcase. Tucson, AZ

Wilson, A.M., M.P. Verhoughstraete, C.J. Donskey, **K.A. Reynolds**. Estimating the contribution of a contaminated wheelchair to pathogen spread with an agent-based model. The Society for Healthcare Epidemiology of America's (SHEA) 6th Decennial International Conference on Healthcare Associated Infections. Atlanta GA. March 29, 2020

Sepulveda, S.R., A. M. Wilson, **K.A. Reynolds**, C.P. Gerba. Impact of a hand sanitizer with a residual effect on bacterial exposures. MEZCOPH Student Research Poster Forum. March 2019.

Verhoughstraete, M.P., C.P. Gerba, **K.A. Reynolds**. Cost-benefit of point-of-use devices for lead reduction. American Water Works Association Annual Conference and Exhibition (AWWA ACE). Denver, CO. June 9-12, 2019

Hunt, B., **K.A. Reynolds**, A.M. Wilson. Engineered Infection Prevention: The Intelligent Self-Disinfecting Hospital. American Society for Healthcare Engineering (ASHE) 2019 Summit & Exhibition on Health Facility Planning, Design & Construction (PDC). Phoenix, AZ, March 17-20, 2019

Wilson, A.M. **K.A. Reynolds**, R.A. Canales, C.P. Gerba. Estimating the Effect of a Unique Hand Sanitizer on Norovirus Infection Risk. Poster. International Food Safety and Environmental Virology (IFSEV) Conference. Tempe, AZ. October 7-10, 2018

Troup, D., M.P. Verhoughstraete, J.D. Sexton, **K.A. Reynolds**. Bioaerosol Reduction with a Passive Air Treatment System in a Controlled Chamber. Poster. Healthcare Infection Transmission Systems (HITS) Conference. Nashville, TN. September 14, 2018

Wilson, A.M. **K.A. Reynolds**, J.D. Sexton, R.A. Canales. Estimating Microbial Reductions Needed on Surfaces to Achieve Risk Targets. Poster. Healthcare Infection Transmission Systems (HITS) Conference. Nashville, TN. September 14, 2018

- Wilson, A.M. **K.A. Reynolds**, R.A. Canales. The Effect of Hand Washing on Fomite-Mediated Norovirus Exposures. International Society of Exposure Science (ISES). August 26-30, 2018
- Wilson, A.M. **K.A. Reynolds**, R.A. Canales. Development of a Model for Predicting Viral Infection Risk and Optimizing Hygiene Protocols. 45th Annual Educational Conference of the Association for Professionals in Infection Control (APIC). Denver, CO. June, 2018
- Verhougstraete, M.P., J. I. Pearce-Walker, **K.A. Reynolds**. Cost Benefits of Point-of-Use Devices to Reduce Waterborne Diseases. UNC Water Microbiology. May 22-24, 2018
- Heusinkveld, D., **K.A. Reynolds**. Risk Assessment: *Legionella pneumophila* exposure from irrigation with domestic roof-harvested rainwater. The University of Arizona's SWESx Poster Forum. Tucson, AZ. April 11-12, 2018
- Wilson, A.M., R.A. Canales, C.P. Gerba, **K.A. Reynolds**. How Much are Surfaces to Blame in Norovirus Outbreaks? MEZCOPH Poster Forum. *Third place winner, research category. Tucson, AZ. April 6, 2018
- Wilson, A.M. **K.A. Reynolds**, R.A. Canales. Validation of a Stochastic Discrete Event Model for Predicting Viral Pathogen Exposure. Arizona Health Science Center Student Showcase Poster Forum. Tucson, AZ. February 21, 2018
- Wilson, A.M. **K.A. Reynolds**, R.A. Canales. Stochastic Discrete Event Modeling to Predict Effects of Surface Cleanings on Viral Infection Risk. 2018 Emerging Researchers National (ERN) Conference in STEM. AAAS, Washington, D.C. February 22-24, 2018. *Student won first place in graduate oral presentations in Ecology, Environmental and Earth Sciences category.
- Wilson, A. **K.A. Reynolds**, R.A. Canales. Modeling Viral Pathogen Exposure and Risk Reductions for Infection Control Interventions. Lewis Stokes Midwest Center of Excellence (LSMCE) Conference. Indianapolis, IN. October 7, 2017
- Sexton, J.D., K. Humphrey, R. Leslie, C. P. Gerba, **K.A. Reynolds**. Effects of Disinfection on the Spread of Virus in an Outpatient Clinic. 44th Annual Educational Conference of the Association for Professionals in Infection Control (APIC). Portland, OR. June 14, 2017
- Reynolds, K.A.**, R.A. Canales, J.D. Sexton, C.P. Gerba. Understanding the Relationships among HAI, Healthcare Surfaces, and Environmental Interventions using QMRA. 44th Annual Educational Conference of the Association for Professionals in Infection Control (APIC). Portland, OR. June 14, 2017
- Reynolds, K.A.**, J.D. Sexton, M.M. Scanlon, V. Lee. Legionellosis Prevention and Response Training for Environmental Health Professionals. 44th Annual Educational Conference of the Association for Professionals in Infection Control (APIC). Portland, OR. June 14, 2017

- Troup, D., M.P. Verhoughstraete, J.D. Sexton, **K.A. Reynolds**. Bioaerosol Reduction with a Passive Air Treatment System in a Controlled Chamber. MEZCOPH Student Poster Forum. Tucson, AZ. April 2017
- Wilson, A.M., J.D. Sexton, H.P. Sassi, **K.A. Reynolds**. Microbial Transfer from Soft Surfaces and its Control in Healthcare Settings. MEZCOPH Student Poster Forum. Tucson, AZ. April 2017
- Reynolds, A., J.D. Sexton, **K.A. Reynolds**. Quantitative Characterization of Microbial Malodor in Laundry. MEZCOPH Student Poster Forum. Tucson, AZ. April 2017
- Reynolds, K.A.**, J. Sexton, T. Pivo, R. Leslie, A. Tamimi, C. Gerba. The Dynamics of Microbe Spread via Hands and Fomites throughout an Outpatient Clinic. IDWeek. New Orleans, LA. October 26-30, 2016. October 27, 2016
- Reynolds, K.A.**, R.A. Canales. Quantitative risk modeling of healthcare acquired infections and interventions using baseline data and simple models. 43rd Annual Educational Conference of the Association for Professionals in Infection Control (APIC). Charlotte, NC. June 12, 2016.
- Verhoughstraete, M.P., J.D. Sexton, J. Pearce-Walker, N. Lothrop, **K.A. Reynolds**, K. Bright. Optimal Strategies for Monitoring Irrigation Water Quality and the Development of Guidelines for the Irrigation of Food Crops. The Water Microbiology Conference 2016, The Water Institute at the University of North Carolina. Chapel Hill, NC. May 17-19, 2016
- Victory, K.R., **K.A. Reynolds**, N.L. Cabrera, D. Larson, J.L. Burgess, P.I. Beamer. Comparison of Chemical and Microbial Contaminants in Tap, Bottled and Vended Water in a U.S.-Mexico Border Community. International Society of Exposure Science (ISES). Cincinnati, OH, October 12-16, 2015
- Ornelas, Y., **K.A. Reynolds**, L. Abrell, S. Grigera, P.I. Beamer. Microbial and Inorganic Contamination in Private Wells along the Santa Cruz River, Arizona. International Society of Exposure Science (ISES). Cincinnati, OH, October 12-16, 2015
- Canales, R.A., R. G. Sinclair, M. Soto-Beltran, **K.A. Reynolds**. Simulating Non-Dietary Ingestion of *Listeria monocytogenes* in Residential Environments. International Society of Exposure Science (ISES). Cincinnati, OH, October 12-16, 2015
- McCracken, K., T.S. Park, S.V. Angus, **K.A. Reynolds**, J.Y. Yoon. 2015. Smartphone Detection with Paper Microfluidics for Monitoring Water Quality. 5th Annual Food Safety Conference: Food Safety and One Health. Tucson, AZ, October 10, 2014
- Sifuentes L.Y., H.P. Sassi, **K.A. Reynolds**, J. Clark-Greuel, E. Nichols, K. McGrath, D.W. Koenig. Impact of a Hygiene Intervention on Virus Transmission in a Long Term Care Facility. Association for Professionals in Infection Control and Epidemiology (APIC). Anaheim, CA, June 7, 2014

Reynolds, K.A., J.D. Sexton. Occurrence and Control Occurrence and Control of Pathogens on Soft Surfaces in the Healthcare Environment. Association for Professionals in Infection Control and Epidemiology (APIC). Anaheim, CA, June 7, 2014

Sexton, J.D., **Reynolds, K.A.** Use of Microbial Surrogates to Evaluate Infection Control Procedures in the Healthcare Environment. 114th General Meeting of the American Society for Microbiology. May 17, 2014

Sassi, H.P., L.Y. Sifuentes, D.W. Koenig, **K.A. Reynolds.** Evaluation of a Hygiene Intervention in a Long-term Care Facility. 114th General Meeting of the American Society for Microbiology. May 17, 2014

Victory, K.R., **K.A. Reynolds,** N.L. Cabrera, D. Larson, J.L. Burgess, P.I. Beamer. Comparison of Chemical and Microbial Contaminants in Tap, Bottled and Vended Water in a U.S.-Mexico Border Community. UA Poster Forum. Tucson, AZ, April 2, 2014.

Victory, K.R., N.L. Cabrera, D. Larson, **K.A. Reynolds,** J. Latura, P.I. Beamer. Risk Perception of Drinking Water Quality in a US-Mexico Border Community. Society for Risk Analysis 2013 Annual Meeting. Baltimore, MD, December 9-11, 2013

Victory, K.R., N.L. Cabrera, D. Larson, J. Latura, **K.A. Reynolds,** P.I. Beamer, editors. Risk Perception of Drinking Water Quality in a U.S.-Mexico Border Community. Environmental Research Grad Blitz, Tucson, AZ, November 2013. (Poster awarded 2nd place honorable mention)

Victory, K.R., N.L. Cabrera, D. Larson, J. Latura, **K.A. Reynolds,** P.I. Beamer, editors. Risk Perception of Drinking Water Quality in a U.S.-Mexico Border Community. Graduate and Professional Student Council Student Showcase, Tucson, AZ, November 2013. (Poster awarded 1st place Public Health Sciences)

Pleasant, A., J. Cabe, M. Pereira-Leon, **K.A. Reynolds.** Evaluating what? Marrying Multiple Methods and Multiple Data Types and Sources: Evaluation of the Arts for Behavior Change Program in Lima, Peru. American Public Health Association. Boston, MA, November 2013.

Reynolds, K.A., J.D. Sexton. Evaluation of a Soft Surface Sanitizer in Healthcare Environments. IDWeek 2013. San Francisco, CA, October 2-6, 2013

Reynolds, K.A., L.M. Suppes. Swimming Pool Water Ingestion Exposure Assessment using Videography and Exposure Questionnaires. Abstracts of the 113th General Meeting of the American Society for Microbiology. Denver, CO, May 2013

Valdez, M.K., J.D. Sexton, **K.A. Reynolds.** Transfer and Control of Microbes in Emergency Vehicles. Q1625. Abstracts of the 113th General Meeting of the American Society for Microbiology. Denver, CO, May 2013

- Sexton, J.D., M.K. Valdez, **K.A. Reynolds**. Transfer and Control of Infectious Microbes in Emergency Medical Responder Facilities and Apparatuses. Q1626. Abstracts of the 113th General Meeting of the American Society for Microbiology. American Society for Microbiology. Denver, CO, May 2013
- Sexton, J.D., M.K. Valdez, **K.A. Reynolds**. Occurrence of Methicillin-Resistant *Staphylococcus aureus* (MRSA) in fire stations. SEHSA. Public Health Research Poster Forum. Tucson, AZ, March 2013
- Valdez, M.K., J.D. Sexton, **K.A. Reynolds**. Transfer and Control of Infectious Microbes in Fire Apparatuses. SEHSA. Public Health Research Poster Forum. Tucson, AZ, March 2013
- Victory, K.R., D. Larson, N. Cabrera, **K.A. Reynolds**, P.I. Beamer. Risk Perception, Drinking Water Source Quality in a Low-Income Latino Community along the US-Mexico Border. SEHSA. Public Health Research Poster Forum. Tucson, AZ, March 2013
- Suppes, L.M., K.C. Ernst, C.P. Gerba, **K.A. Reynolds**. Influence of Swimmer Activity and Behavior on Pool Water Ingestion. Arizona County Directors of Environmental Health Services Association, Laughlin, NV, January 2013
- Valdez, M.K., J.D. Sexton, **K.A. Reynolds**. Transfer and Control of infectious Microbes in Emergency Vehicles. Environmental Research Grad Blitz. Tucson, AZ, November 2012
- Valdez, M.K., J.D. Sexton, **K.A. Reynolds**. Surface Disinfecting Efficacy for Reducing Spread of Infectious Microbes in Fire Stations and Apparatuses. Student showcase. Tucson, AZ, November 2012
- Suppes, L.M., **K.A. Reynolds**. Standardization and Validation of Aquatic Environmental Exposure and Operations Questionnaires. International Society of Exposure Science (ISES). Seattle, WA, October 2012
- Sifuentes, L.Y., P.I. Beamer, K.R. Plotkin, C.P. Gerba, D.W. Koenig, **K.A. Reynolds**. Risk Modeling of Human Viruses on Fomites and the Impact of a Healthy Workplace Intervention. International Society of Exposure Science (ISES). Seattle, WA, October 2012
- Suppes, L.M., **K.A. Reynolds**. Chlorine Disinfection Efficacy and Swimmer Exposures at Multiple Pool Depths. National Environmental Health Association (NEHA). San Diego, CA, July 2012
- Soto-Beltran, M., K.D. Mena, C.P. Gerba, P. Tarwater, **K.A. Reynolds**, C. Chaidez. Risk Assessment of *Listeria monocytogenes* in Queso Fresco in Culiacan, Mexico. Q1008. Abstracts of the 112th General Meeting of the American Society for Microbiology. American Society for Microbiology. San Francisco, CA, June 2012
- Reynolds, K.A.**, R.G. Sinclair, M. Soto-Beltran, M. Molina, M.E. Penny. Hygiene Assessment in an Urban, Low-Income Community. Q2028. Abstracts of the 112th General Meeting of the

American Society for Microbiology. American Society for Microbiology. San Francisco, CA, June 2012

Lopez, G.U., M. Kitajima, A. Havas, **K.A. Reynolds**. The Effect of Disinfectant Wipes on Microbial Transfer. Q1503. Abstracts of the 112th General Meeting of the American Society for Microbiology. American Society for Microbiology. San Francisco, CA, June 2012

Ramirez-Andreotta, M.D., R.M. Maier, J.F. Artiola, M.L. Brusseau, P.I. Beamer, **K.A. Reynolds**. Assessing the Potential Risk of Metal(loid) Exposure from Consumption of Home Produced Vegetables Near the Iron King Humboldt Smelter Superfund Site, Dewey-Humboldt, Arizona. International Society of Exposure Science. Baltimore, MD, November 2011

Ramirez-Andreotta, M.D., R.M. Maier, J.F. Artiola, M.L. Brusseau, P.I. Beamer, **K.A. Reynolds**. Assessing the Potential Risk of Metal(loid) Exposure from Consumption of Home Produced Vegetables Near the Iron King Humboldt Smelter Superfund Site, Dewey-Humboldt, Arizona. 2011 Superfund Research Program, Annual Meeting. Lexington, KY, October 2011

Suppes, L.M., **K.A. Reynolds**. Analysis of Deep-water Microbial Contaminants and Surface Air Disinfection By-products in Swimming Pools. Institute of the Environment. Environmental Grad Research Blitz. Tucson, AZ, November 2011

Sexton, J.D., **K.A. Reynolds**. Mold Control on Drywall Using Household Bleach. Q3117. Abstracts of the 110th General Meeting of the American Society for Microbiology. American Society for Microbiology. San Diego, CA, May 2010

Reynolds, K.A., Z. Yang, P. Lucas, M.R. Riley. Device Development for Continuous Monitoring of Flowing Drinking Water for Viruses. Q2405. Abstracts of the 110th General Meeting of the American Society for Microbiology. American Society for Microbiology. San Diego, CA, May 2010

Nordstrom, J.A., **K.A. Reynolds**. Evaluation of the Occurrence and Risk of Microbes in Laundry and Laundry-Associated Surfaces. Q464. Abstracts of the 109th General Meeting of the American Society for Microbiology. American Society for Microbiology. Philadelphia, PA, May 2009

Miles, S.L., I.L. Pepper, C.P. Gerba, **K.A. Reynolds**. Point-of-Use Drinking Water Devices for Assessing Microbial Contamination in Finished Water and Distribution Systems. Q080. Abstracts of the 108th General Meeting of the American Society for Microbiology. American Society for Microbiology. Boston, MA, May 2008

Sexton, J.D., **K.A. Reynolds**. Occurrence of Methicillin-Resistant *Staphylococcus aureus* (MRSA) in Fire Stations. Q247. Abstracts of the 108th General Meeting of the American Society for Microbiology. American Society for Microbiology. Boston, MA, May 2008

Sexton, J.D., **K.A. Reynolds**. Monitoring MRSA in Fire Stations. AHSC Frontiers in Biomedical Research. Toronto, Canada, October 2007

Miles, S., **K.A. Reynolds**, C.P. Gerba, I.L. Pepper. Point-of-Use Drinking Water Devices for Assessing Microbial Contamination in Finished Water and Distribution Systems. Abstracts of the 107th General Meeting of the American Society for Microbiology. American Society for Microbiology. Toronto, Canada, May 2007

Reynolds, K.A., K.R. Bright, C.P. Gerba. Assessing the Extent of Microbial Contamination in Finished Water and Distribution Systems using Point-of-Use Drinking Water Devices. Abstracts of the 106th General Meeting of the American Society for Microbiology. Abstract Q-514. American Society for Microbiology. Orlando, FL, May 2006

PATENTS

Single Copy Level Detection of Virus through Particle Counting on Paper Microfluidics Using Smartphone Based Fluorescence Microscope. Yoon, JY, KA Reynolds, S Chung. Provisional patent: UAZ-0150000_UA20-057. Marketed for licensing, March 2024

PRIMARY DATA ARCHIVES

NIH-NCBI BioSample accessions for wastewater metagenomes 1-9: SAMN41438115, SAMN41438116, SAMN41438117, SAMN41438118, SAMN41438119, SAMN41438120, SAMN41438121, SAMN41438122, SAMN41438123. Temporary submission ID: SUB14453316; Release date: July 30, 2025

GRANTS AND CONTRACTS (since 2006)

Current grants (Federal)

CDC-National Network of Public Health Institutes (NNPHI) Public Health Infrastructure Grant (PHIG). 9.5% effort, PI. \$199,999 annually. 09/01/2024-7/30/2025

Western Environmental Science Technical Assistance Center for Environmental Justice (WEST EJ Center). (98T65901) 5% effort, co-I. (PI: Beamer) USEPA. \$9,999,412. 03/01/23-02/28/28

Western Region Public Health Training Center. (UB6HP31687) 20% effort. PI. NIH Health Resources and Services Administration (HRSA). \$4,105,215. 7/01/2022-6/30/2026

Advancing Safety and Reliability to Protect Public Health: Identifying Quantitative Reductions of Viral Pathogens and Surrogates for Water Reuse Applications. 3.3% effort, co-I. (PI: Pepper) Federal: US Environmental Protection Agency (USEPA). (5126/8402600). Water Research Foundation (WRF), \$1,239,813; UA subcontract, \$1,100,000; 7/01/2021-6/30/2026

Current grants (State/Foundation/Industry/Other)

PHWins. 1% effort, PI. Foundation: DeBeaumont. 02/01/2024-01/31/2025. \$22,000

Project Washington. 1.5% effort, PI. Industry: Reckitt. \$87,888. 11/28/2023-11/27/2025

Home Hygiene Study. 3.5% effort, PI. Industry: Reckitt. \$391,355. 08/14/2023-08/13/2025

Development of an Environmental Surveillance System to Track Endemic and Emerging Influenza A Virus Circulations using a One Health Approach. 1% effort, PI. One Health Pilot Grants, UA's One Health Research Initiative. \$50,000. 07/01/2024-06/30/2025

Uptake of Heavy Metals by Field-Grown Medicinal Plants Used by Indigenous Peoples. 1% effort, co-PI (PI: McLain). One Health Pilot Grants, UA's One Health Research Initiative. \$50,000. 07/01/2024-06/30/2025

Quantitative Assessment of Pathogen Transfer and Risk in Hotel and Office Built Environments. 5% effort. PI. Industry: Reckitt. \$254,178. 03/04/2022-12/01/2024

Exposure Assessment and Risk Impact of Air Dryers. 1% effort. PI. Industry: Excel Dryer, Inc. \$356,559. 11/09/2021-11/08/2025

Chamber Study Model Development. 1.4% effort, PI. Industry: SC Johnson. \$68,972. 09/25/2024-09/24/2025

Quantitative Evaluation of Air, Surface, and Hand Contamination Potentials and Impact on Microbial Exposure and Risk Assessment. 5% effort. PI. Industry: Splashblocker, Inc. \$162,968. 12/14/2021-12/13/2024

Completed Research Support

Completed grants (since 2006)

Intergovernmental Personnel Agreement. (20IPA2014142-MO2) 20% effort, PI. National Institute for Occupational Safety and Health (NIOSH). \$132,612. 9/1/2020-8/31/2024

Sub-PPT-level PFAS detection from wastewater and its implementation towards PFAS removal. 1% effort, co-PI. (PI: Yoon) USDA Federal Capacity Grants of Hatch, Hatch Multistate, and McIntire-Stennis (NIFA Projects). \$30,000. 08/15/2023-08/14/2024

Water Quality Emerging Contaminants. <1% effort, PI. Other: NSF Water, Environment and Technology (WET) Center. Development of PFAS Smartphone Monitoring Tool. \$10,000. 07/08/2022-07/08/2024

Sub-PPT-level PFAS detection from wastewater and its implementation towards PFAS removal. 1% effort, co-PI (PI: Yoon). University of Arizona One Health Research Initiative. \$50,000. 03/31/2023-04/30/2024

Hygiene Perception Survey. <1% effort, PI. Industry: GOJO Industries, Inc. \$49,974. 09/09/2022-09/09/2023

Feasibility Assessment for the Laser-Based Remote Detection of Viruses in Human Exhaled Breath. <1% effort. Co-I (PI: Pavel Polynkin). Other: RII Accelerate for Success Grant. \$49,762. 07/01/2022-07/31/2023

Assessment of SARS-CoV-2 Viability and Persistence in Sewage Samples Across the United States Using In Vitro Cell Culture and Molecular Methods. (75D30121C12722) 4% effort, co-PI. (PI: Betancourt) Centers for Disease Control and Prevention (CDC). \$349,674. 9/27/2021-3/24/2023

Air Sanitization and Risk Assessment. 1% effort, PI. Industry: SC Johnson. \$28,591. 07/21/2022-11/21/2022

Whole Room Air Sanitization Pilot. <1% effort, PI. Industry: Nevoa. \$3,769. 08/26/2022-09/15/2022

Assessment of Hypochlorous Acid Disinfectant used in Conjunction with a Continuously acting Disinfectant in a Coffee Break Room and Restrooms. 1% effort, PI. Industry: Blue Planet. \$16,662. 06/28/2022-09/28/2022

Evaluation of a real-time smartphone-based detection method for sensitive and specific detection of PFAS compounds. .01% effort, PI. Water, Environment and Technology Center (WET) Membership Agreement, University of Arizona. \$15,000. 09/01/2021-08/31/2022

Water Quality Emerging Contaminants. 5% effort, PI. Industry: Intergovernmental Agreement: Tucson Water. Development of Consumer Outreach and Risk Communication Tools. \$88,000. 12/08/2020-04/30/2022

Consumer Tools for Understanding Water Quality Contaminants and POU/POE Options. 5% effort. Water Quality Research Foundation (WQRF) PI. \$49,978. 12/8/2020-4/30/2022

Pilot Study: Evaluation of Hand Hygiene Intervention Efficacies Using In Vitro Methods and a Simulated Food Service Scenario. 3% effort, PI. Industry: Ecolab. \$97,135. 12/28/2020-03/01/2022

Western Region Public Health Training Center. (UB6HP31687) 25% effort. PI. NIH Health Resources and Services Administration (HRSA). Total award: \$4,153,812; 2021-2022: \$1,502,890. 7/01/2021-6/30/2022

Emergency Medical Service QMRA modelling on UV Impacts on Microbial Contaminants. GHSP. 1% effort, PI. \$23,900. 03/15/20-05/15/21

Airplane Validation Testing, COVID Response (2020-GT-PA-144). 5% effort, Co-PI. Industry: Boeing Aerospace Company. \$161,442. 07/01/2020-06/30/2021

Single Copy Level Detection of Virus through Particle Counting on Paper Microfluidics Using Smartphone Based Fluorescence Microscope. co-PI. Tech Launch Arizona (TLA). \$37,806. 10/19/20-05/14/21

Bioaerosol Sampling for Quantitative Exposure Assessment of Airborne SARS-CoV-2 in a Wastewater Facility. 1% effort, Co-PI. University of Arizona COVID-19 Rapid Turn-Around Seed Grant/TRIF. \$59,840. 4/6/20-10/4/20

Impact of Antibacterial Soap in a Food Service Establishment. 5% effort, Co-PI. Industry: EcoLab. \$188,749. 7/31/2019-7/31/2020

Evaluation of Whole Room Disinfection and Terminal Cleaning Efficacies in Healthcare. 5% effort, PI. UA Foundation; Nevoa. \$33,720. 7/24/2017-7/23/2020

Hand Sanitizer Healthcare Worker Observations. 1% effort, PI. Industry: GOJO. \$22,583. 02/06/20-07/17/20

Water Quality Emerging Contaminant. 5% effort, PI. Federal/State: NSF-WET Center; Tucson Water. \$88,517. 8/01/2018-06/30/2020

Development of a One Health Undergraduate Program with a Global Reach. 5% effort, Co-PI. State: University of Arizona Provost Investment Fund. \$157,000. 12/15/2019-12/15/2020.

City Hygiene Review. 1% effort, PI. State: City of Tucson. \$26,864. 06/15/20-12/15/20

Combined Surface Sampling and Quantitative Microbial Risk Assessment Modeling to Optimize Surface Cleaning for Targeted HAI Reduction. 5% effort, Co-Investigator. Centers for Disease Control and Prevention (CDC). \$509,990. 10/1/2018-9/30/2019.

Using QMRA to Estimate Risk Target Compliance for Showering Events. 1% effort, PI. UA Foundation; Ecolab. \$15,000. 2/20/2019-2/19/2020

Cost Benefit of Point-of-Use Devices in Reduction of Health Risks from Drinking Water. 10% effort, PI. Water Quality Research Foundation. \$56,009. 9/24/2015-1/3/2019

Thermophilic Amoeba Evaluation in a Municipal Water Treatment System. 1% effort. PI. Aurora Water. \$4,018. 6/30/19-12/30/19

Residual Surface Disinfectant Impacts in a School Setting. 1% effort, co-PI. Enviro-Master. \$8,000. 9/8/19-11/20/19

Household POU Filters: Tools for Long-term, Large Volume Monitoring of Tap Water Quality and Human Health Risks. 5% effort, PI. Foundation: Water Quality Association Research Foundation. \$50,000. 12/17/17-05/31/19.

Systematic Review of Hand Drying Methods Research. 8% effort, PI. Excel Dryer, Inc. \$22,499. 8/18/2018-11/30/2018

Development and Dissemination of an Online Training for Environmental Health Professionals: Legionellosis Prevention and Response. 26% effort, PI. Taren, Douglas (Co-PI). National Network of Public Health Institutes (NNPHI), and the Centers for Disease Control and Prevention (CDC). \$175,000. 12/1/2016-9/30/2018.

Modeling Virus Risks and Intervention Impacts in Healthcare Environments. 5% effort, PI. Industry: GOJO Industries/Foundation: UA Foundation. \$19,000. 10/01/2017-2/28/2018.

Development of Office Wellness Programs. 5% effort, PI. Industry: GOJO Industries/Foundation: UA Foundation. \$50,000. 12/30/2016-12/30/2017.

Water Quality Emerging Contaminants. 5% effort, PI. Industry: Intergovernmental Agreement: Tucson Water. Development of Consumer Outreach and Risk Communication Tools. \$40,000. 07/2016-06/2017

Water Quality Monitoring using Smartphone Detection from Paper Microfluidics. 5% effort. PI. Industry: Tucson Water; Foundation: National Science Foundation's Water, Environment and Technology Center. Renewed: \$23,582; 08/01/2016-07/31/2017.

Enteric Viruses as New Indicators of Human and Cattle Fecal Contamination of Irrigation Waters. 1% effort. Co-I. Bright, Kelly (PI); Verhoughstraete, Marc (Co-PI). Multi-agency: Center for Produce Safety. \$219,879; 01/01/2015-06/30/2017

Identifying new surrogates for irrigation water. 2.5% effort, Co-Investigator. Verhougstraete, Marc (PI). Arizona Department of Agriculture. Specialty Crop Block Grant Program. \$65,441 10/21/2017-10/31/2018.

A New Way of Assaying Zika Virus through Monitoring Interfacial Effects on Paper. 5% effort, Co-Principal Investigator. Yoon, Jeong-Yeol (Co-PI)._State: Pilot Interdisciplinary Project Grants. \$70,000. 7/1/2016-6/30/2017.

Controlled Laboratory Chamber Study of Antimicrobial Efficacy Over Long-Term Use. 3% effort, Principal Investigator. Foundation: Knowles Science Teaching Foundation; Industry: XStream, LLC. \$48,000. 2016-2017.

Impact of Spray Disinfectant on Spread of Viruses in an Urgent/Outpatient Care Facility. 8% effort, Principal Investigator. Industry: GOJO Industries. \$55,911. 2015-2017.

Impact of Antibacterial Soap on fecal bacterial load on humans and household fomites. 5% effort, Co-Principal Investigator; Gerba, Charles (co-PI). Industry: Safeguard Industries. \$80,000. 2016-2017.

Impact of Santa Clarita Water Softener Ban on Brine Discharge Regulatory Compliance. 8% effort, Principal Investigator. Foundation: Water Quality Association Research Foundation/Pacific Water Quality Association. \$50,000. 2016-2017.

Healthcare Surfaces Summit. 20% effort, Co-Founder. Industry/Foundation: Healthcare Industry Manufacturer Sponsored (Kimberly-Clark, GOJO, NSF International, Copper Development Association). \$160,000. 2015-2017.

First Responder Safety and Health. 5% effort, Co-Investigator. Granillo, Alma (PI); Verhougstraete, Marc (Co-PI). State: Arizona Department of Health Services (ADHS), Hospital Preparedness Program (Ebola) and Public Health Emergency Preparedness Cooperative Agreements. \$240,000. 10/01/2015-09/30/2017.

Hand Sanitizer Laboratory and Field Efficacy Study. 1% effort. Principal Investigator. J&A Industries. \$9,692. 2015-2017.

Water Quality Monitoring using Smartphone Detection from Paper Microfluidics. 2% effort. Co-Principal Investigator; Yoon, Jeong-Yeol (co-PI). Industry: Tucson Water; Foundation: National Science Foundation's Water, Environment and Technology Center. \$18,821; 2015-2016

Optimal strategies for monitoring irrigation water quality and the development of guidelines for the irrigation of food crops. 1% effort. Co-Investigator. Verhougstraete, Marc (PI). Multi-agency: Center for Produce Safety. \$117,202; 2014-2016

Literature Review of Boil Water Notices in the U.S. 5% effort. Principal Investigator. Water Quality Association. \$15,000; 2014-2016

Determining Data Gaps in Risk Assessment for Produce Safety. 10% effort. Co-Investigator. Verhougstraete, Marc (PI). Arizona Department of Agriculture (ADA). \$50,306. 2015-2016.

Environment, Exposure Science and Risk Assessment Center (ESRAC) Continuing Support. 10% effort. Principal Investigator. Water, Environmental, and Energy Solutions (WEES) Initiative. \$51,940. 2015-2016.

An Exploration of the Cost Effectiveness of Hand Hygiene Programs in Preventing Hospital Acquired Infections. 5% effort. Co-Principal Investigator. Canales, Robert (Co-PI). Georgia Pacific. \$35,313; 12/15/2014-12/31/2016.

Spatial/Temporal Sampling of Irrigation Water. 5% effort. Co-Investigator. Bright, Kelly (PI); Verhougstraete, Marc (Co-PI). Arizona Department of Agriculture. \$73,680; 2014-2016

Molecular Epidemiology of *Clostridium difficile* Food Contamination: Links to Human Community Acquired Infections. 5% effort, Co-Investigator. Federal: USDA-AFRI; \$1,250,000; 2010-2016; PI of UA subcontract, \$250,000

Water Quality Monitoring using Smartphone Detection from Paper Microfluidics. 2% effort. Co-Principal Investigator; Yoon, Jeong-Yeol (co-PI). Industry: Tucson Water; Foundation: National Science Foundation's Water, Environment and Technology Center. \$32,000; 2014-2015

Chromium 6 Risk Characterization in Drinking Water. 5% effort. Principal Investigator. State: Tucson Water. \$17,500; 2014-2015

Hospital Field Study of T1 Air Disinfectant Recirculator Efficacy against Viral Tracers. 2% effort. Co-Principal Investigator. Verhougstraete, Marc (Co-PI). Industry: Aerobiotix, Inc. \$23,427; 2014

Comparison of Real-Time Methods for Monitoring *E. coli* in Drinking Water. 1% effort. Principal Investigator. State: Tucson Water. \$5,000; 2014

Quantitative Characterization of Microbial Malodor in Laundry. 12% effort, Principal Investigator. Industry: International Flavors and Fragrances, Inc. \$160,234; 2013-2015

Water Quality Monitoring using an Endetec Tecta-16 Analyzer. 1% effort, Principal Investigator. State: Tucson Water. \$7,400; 2013-2014

Bacterial Soft Surface Transmission Routes in Long-Term Care Facilities and Physician Offices. 7.5% effort, Principal Investigator. Industry: The Clorox Company. \$62,450; 2013-2014

Quantifying Bacterial Levels on Soft Surfaces in Healthcare Settings. 3.3% effort, Principal Investigator. Industry: The Clorox Company. \$48,232; 2012-2013

Virus Transmission in a Long-Term Care Facility. 12.5% effort, Principal Investigator. Industry: Kimberly Clark Corporation. \$60,580; 2012-2013

Development of Hybrid Courses in Risk Assessment. 5% effort. Principal Investigator. University of Arizona Online Education Project. \$10,000; 2012-2013

Tracking Microbial Transmission Routes in the Hotel Setting. 8% effort, Co-Principal Investigator; Gerba, Charles (co-PI). Industry: Kimberly Clark Corporation. \$74,627; 2011-2013

Development of an Environment, Exposure Science and Risk Assessment Center (ESRAC). 10% effort. Co-Principal Investigator; O'Rourke, Mary Kay (co-PI). Water, Environmental, and Energy Solutions (WEES) Initiative. \$250,000; 2012-2015

Hospital/Out-Patient Field Study of Disinfectant Efficacy against Microbes. 2% effort. Principal Investigator. Spectrashield Technologies, LLC. \$27,260; 2012-2013

Transfer and Control of Infectious Microbes in Emergency Vehicles. 2% effort. Principal Investigator. Northwest Fire District & The Clorox Company. \$29,170; 2012-2013

Risk Perception, Drinking Water Source and Quality in Low-Income Latino Communities along the US-Mexico Border. 1% effort, Co-Principal Investigator; Beamer, Paloma (co-PI). University of Arizona, Technology and Research Initiative Fund (TRIF) through the Water, Environmental and Energy Solutions Initiative. \$39,158; 2011-2013

Development and Validation of a Questionnaire to Assess Swimming Pool Water Exposures and Health Outcomes. 10% effort, Principal Investigator. National Swimming Pool Foundation. \$65,459; 2011-2012

Bioaerosol Hazards Associated with Qualitative Respirator Fit Testing. 1% effort, Principal Investigator. Federal: UCLA NIOSH Education Research Center. \$20,304; 2011-2012

Arts for Behavioral Change Program in Lima, Peru. 16% effort, Co-Investigator; Pleasant, Andrew (PI). Foundation/Industry: Canyon Ranch Institute/ The Clorox Company; \$728,000; PI of Microbial Assessment Team; UA subcontract, \$78,000. 2011-2012

Lab-On-a-Chip Flow Cytometer for the Detection of Enteroviruses. 5% effort, Principal Investigator. Foundation: UA Foundation Board of Trustees/Office of the Vice President for Research- Faculty Seed/ Community Connection Grant. \$9,835; 2011-2012

Evaluation of Disinfecting Wipes for the Interruption of Pathogen Surrogate Transfer in the Environment. 12% effort, Principal Investigator. Industry: The Clorox Company. \$37,989; 2011-2012

Evaluation of a Healthy Workplace Intervention. 8% effort, Co-Principal Investigator. Industry: Kimberly Clark Corporation. \$85,907; 2011-2012

Toxin Producing Cyanobacteria in Egypt's Suez Canal. 6% effort, Principal Investigator. Federal: U.S.-Egypt Joint Fund. \$60,000. 2007-11

The Occurrence of H1N1 and Seasonal Influenza virus on Household and Day Care Center Fomites. 10% effort, Principal Investigator. Industry: The Clorox Company. \$44,164; 2009-2011.

Indoor Mold Control on Porous Surfaces using Household Bleach. 13% effort, Principal Investigator. Industry: The Clorox Company. \$66,296; 2008-2010

Tracking MRSA in the Environment. 12% effort, Principal Investigator. Industry: The Clorox Company. \$120,000. 2005-09

Integrated Capture and Spectroscopic Detection of Viruses. 5% effort, Co-Principal Investigator; Riley, Mark (co-PI). State: Bio5 Institute. \$42,000; 2006-08

Point-of-Use Drinking Water Devices for Assessing Microbial Contamination in Finished Water and Distribution Systems. 6% effort, Principal Investigator. Federal/State: NSF/WQC. \$57,000; 2007-08

MRSA Prevalence and Exposure Potentials in Paramedic Environments. 15% effort, Principal Investigator. Industry: The Clorox Company. \$44,817; 2007-08

Monitoring Transmission Routes of MRSA in Gymnasiums. 15% effort, Principal Investigator, Industry: The Clorox Company. \$45,110; 2006-07

Evaluation of Point-of-Use Drinking Water Devices for Assessing the Extent of Microbial Contamination of Tap Water. 15% effort, Principal Investigator. Federal/State: NSF/WQC. \$73,000; 2006-07

Monitoring Methicillin-Resistant *Staphylococcus aureus* in the Domestic Environment Using Chromogenic Plating Medium. 15% effort, Principal Investigator. Industry: The Clorox Company. \$177,500; 2006

This is a true and accurate statement of my activities and accomplishments. I understand that misrepresentation in securing promotion and tenure may lead to dismissal or suspension under ABOR Policy 6-201 J.1.b.



Signed:

Kelly A. Reynolds