

CURRICULUM VITAE

Amy Rebecca Sapkota, Ph.D., M.P.H.

Notarization: I have read the following and certify that this *curriculum vitae* is a current and accurate statement of my professional record.

Signature:  Date: 11/19/20

Personal Information

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Education

- 2005 **Johns Hopkins University Bloomberg School of Public Health**, Baltimore, MD
Doctor of Philosophy in Environmental Health Sciences
Howard Hughes Medical Institute Pre-Doctoral Fellow in Biological Sciences, 2001-2005
Certificate in Risk Sciences and Public Policy, 2002
Advisor: Kellogg J. Schwab, PhD, MS
- 1999 **Yale University School of Public Health**, New Haven, CT
Master of Public Health in Environmental Health Sciences
- 1997 **University of Maryland, College Park**, College Park, MD
Bachelor of Science in Biology
Phi Beta Kappa, summa cum laude

Post-doctoral Training

- 2005-2007 **École Centrale de Lyon**, Environmental Microbial Genomics Group, Laboratoire Ampère
Le Centre National de la Recherche Scientifique, Lyon, France
Advisor: Timothy M. Vogel, PhD, MS
- 2005 **Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD**
Department of Environmental Health Sciences, Center for Water and Health

Employment Background

- 5/18-Present Professor
University of Maryland School of Public Health
Maryland Institute for Applied Environmental Health
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8/13-5/18 Associate Professor
University of Maryland School of Public Health
Maryland Institute for Applied Environmental Health
Department of Epidemiology and Biostatistics
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1/09-Present Affiliate Faculty
University of Maryland
Marine Estuarine Environmental Sciences Graduate Program
College Park, MD

1/09-Present Affiliate Faculty
University of Maryland
Center for Food Safety and Security Systems
College Park, MD

6/08-Present Affiliate Faculty
University of Maryland
Maryland Pathogen Research Institute
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6/07-8/13 Assistant Professor
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Maryland Institute for Applied Environmental Health
Affiliate, Department of Epidemiology and Biostatistics
College Park, MD

11/05-6/07 Post-doctoral Fellow
École Centrale de Lyon
Laboratoire Ampère, Environmental Microbial Genomics Group
Le Centre National de la Recherche Scientifique
Lyon, France

9/01-11/06 Research Director (Part-time)
Center for a Livable Future, Industrial Animal Production Project
Johns Hopkins University Bloomberg School of Public Health
Baltimore, MD

4/05-11/05 Post-doctoral Fellow
Johns Hopkins University Bloomberg School of Public Health
Department of Environmental Health Sciences, Center for Water and Health
Baltimore, MD

9/01-4/05 Howard Hughes Medical Institute Pre-Doctoral Fellow in Biological Sciences
Johns Hopkins University Bloomberg School of Public Health
Department of Environmental Health Sciences, Center for Water and Health
Baltimore, MD

9/99-9/01 Environmental Epidemiologist and Acting Director
Maryland Department of Health and Mental Hygiene
Office of Environmental Health Coordination
Baltimore, MD

6/98-9/98 National Network for Environmental Management Studies (NNEMS) Fellow

Publications (Chapin is maiden name; †denotes corresponding author; § denotes shared first or senior authorship; #denotes advised undergraduate students; *denotes advised graduate students; **denotes advised post-doctoral students)

Publication Statistics: According to Google Scholar, as of 7/16/20, my published, peer-reviewed papers have been cited a total of 3,042 times (Average of 48.3 citations per article; Range, 0-664). My overall **h-index is 23**. 2018 Impact Factors are listed below, number of citations are defined by Google Scholar.

Articles Published or In Press in Peer-reviewed Journals

1. Hathcock AL, Nace C, Johnson D, Quimbo R, Venezia R, **Chapin A**, Cline JS, Buckheit K, Webb P, Ball R, Scruggs N, Jenkins S, Peipins LA, Monti M, Brooks M. 2000. Surveillance for possible estuary-associated syndrome—six states, 1998-1999. *Morbidity and Mortality Weekly Report* 49, 372-373. **Impact Factor: NA. Cited: 4.**
Contribution of Amy R. Sapkota: Generated and provided surveillance data for the State of Maryland; and edited the manuscript.
2. **Chapin AR**, Carpenter CM, Dudley WC, Gibson LC, Pradesaba R, Torres O, Sanchez D, Belkind-Gerson J, Nyquist I, Karnell A, Gustafsson B, Halpern JL, Bourgeois AL, Schwab KJ.† 2005. Prevalence of Norovirus among United States visitors to Mexico and Guatemala who experience traveler's diarrhea. *Journal of Clinical Microbiology* 43, 1112-1117. **Impact Factor: 4.959. Cited: 71.**
Contribution of Amy R. Sapkota: Performed all laboratory analyses and wrote the entire manuscript.
3. **Chapin A**, Rule A, Gibson K, Buckley T, Schwab K.† 2005. Airborne multi-drug resistant bacteria isolated from a concentrated swine feeding operation. *Environmental Health Perspectives* 113, 137-145. **Impact Factor: 8.38. Cited: 181.**
Secondary Write-up: This article was selected by the journal, *Environmental Health Perspectives*, as one of their Environews Science Selections:
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1277892/>
Contribution of Amy R. Sapkota: Developed study idea; designed sampling strategy; performed all field sampling trips and laboratory analyses; and wrote the entire manuscript.
4. Wu HM†, Fornek M, Schwab KJ, **Chapin AR**, Gibson KE, Schwab E, Spencer C, Henning K. 2005. A Norovirus outbreak at a long-term-care facility: the role of environmental surface contamination. *Infection Control and Hospital Epidemiology* 26, 802-810. **Impact Factor: 2.938. Cited: 246.**
Contribution of Amy R. Sapkota: Performed norovirus detection methods on stool, vomitus, and environmental surface samples; and contributed to the methods section of the manuscript.
5. Rule AM, **Chapin AR**, McCarthy S, Gibson KE, Schwab KJ, Buckley TJ.† 2005. Assessment of an aerosol treatment to improve air quality in a swine concentrated animal feeding operation (CAFO). *Environmental Science & Technology* 39, 9649-9655. **Impact Factor: 7.864. Cited: 36.**
Contribution of Amy R. Sapkota: Performed laboratory analyses; and contributed to the methods and discussion section of the manuscript.
6. **Sapkota AR**, Price LB, Silbergeld EK, Schwab KJ.† 2006. Arsenic resistance in *Campylobacter* spp. isolated from retail poultry products. *Applied and Environmental Microbiology* 72, 3069-3071. **Impact Factor: 4.077. Cited: 30.**
Contribution of Amy R. Sapkota: Developed study idea; designed and performed all laboratory analyses; and wrote the entire manuscript.

7. **Sapkota AR**, Ojo KK, Roberts MC, Schwab KJ.† 2006. Antibiotic resistance genes in multidrug-resistant *Enterococcus* spp. and *Streptococcus* spp. recovered from the indoor air of a concentrated swine feeding operation. *Letters in Applied Microbiology* 43, 534-540. **Impact Factor: 1.890. Cited: 70.**
Contribution of Amy R. Sapkota: Developed study idea; designed and performed all laboratory analyses; and wrote the entire manuscript.
8. **Sapkota AR†**, Lefferts LY, McKenzie S, Walker P. 2007. What do we feed to food production animals? A review of animal feed ingredients and their potential impacts on human health. *Environmental Health Perspectives* 115, 663-670. **Impact Factor: 8.38. Cited: 261.**
Contribution of Amy R. Sapkota: Performed literature review; and wrote the entire manuscript. Served as the corresponding author.
9. **Sapkota AR†**, Curriero FC, Gibson KE, Schwab KJ. 2007. Antibiotic-resistant enterococci and fecal indicators in surface waters and groundwater impacted by a concentrated swine feeding operation. *Environmental Health Perspectives* 115, 1040-1045. **Impact Factor: 8.38. Cited: 221.**
Contribution of Amy R. Sapkota: Developed study idea; designed sampling strategy; performed all field sampling trips and laboratory analyses; and wrote the entire manuscript. Served as the corresponding author.
10. Ojo KK, **Sapkota AR.†** 2007. Self-prescribed use of antimicrobials during menstrual periods: A disturbing new example of information poverty in Nigeria. *Journal of Infection in Developing Countries* 1, 123-124. **Impact Factor: 1.191. Cited: 8.**
Contribution of Amy R. Sapkota: Performed literature review and preliminary analyses; co-wrote the entire manuscript. Served as the corresponding author.
11. David MM*, **Sapkota AR**, Simonet P, Vogel, TM.† 2008. A novel and rapid method for synthesizing positive controls and standards for quantitative PCR. *Journal of Microbiological Methods* 73, 73-77. **Impact Factor: 1.790. Cited: 11.**
Contribution of Amy R. Sapkota: Assisted with laboratory analyses; and wrote a significant portion of the manuscript.
12. Sapkota A†, **Sapkota AR**, Kucharski M, Burke J, McKenzie S, Walker P, Lawrence R. 2008. Aquaculture practices and potential human health risks: Current knowledge and future priorities. *Environment International* 34, 1215-26. **Impact Factor: 7.943. Cited: 664.**
Contribution of Amy R. Sapkota: Performed literature review; and wrote significant portions of the manuscript.
13. Ojo KK†, **Sapkota AR**, Pottinger PS, Ojo TB. 2008. Antimicrobial resistance gene distribution: A socioeconomic and sociocultural perspective. *German Medical Science* 3, 1-6. **Impact Factor: NA. Cited: 13.** Contribution of Amy R. Sapkota: Contributed to manuscript idea; and wrote significant portions of this manuscript.
14. **Sapkota AR†**, Berger S, Vogel, TM. 2010. Human pathogens abundant in the bacterial metagenome of cigarettes. *Environmental Health Perspectives* 118, 351-6. **Impact Factor: 8.38. Cited: 108.**
Contribution of Amy R. Sapkota: Developed study idea; designed sampling strategy; performed the majority of the laboratory analyses; performed the majority of the statistical analyses; and wrote the entire manuscript. Served as the corresponding author.
15. Nemir A#, David MM*, Perrussel R, **Sapkota A**, Simonet P, Monier J, Vogel TM.† 2010. Comparative phylogenetic microarray analysis of microbial communities in TCE-contaminated soils. 2010. *Chemosphere* 80(5):600-7. **Impact Factor: 5.108. Cited: 18.**
Contribution of Amy R. Sapkota: Performed laboratory analyses; and edited the manuscript.

16. **Sapkota AR[†]**, Coker ME, Rosenberg Goldstein RE*, Atkinson, NL, Sweet SJ*, Sopeju PO, Ojo MT, Otivhia E, Ayepola OO, Olajuyigbe OO, Shireman L, Pottinger PS, Ojo KK. 2010. Self-medication with antibiotics for the treatment of menstrual symptoms in Southwest Nigeria: a cross-sectional study. *BMC Public Health* 10:610. **Impact Factor: 2.69. Cited: 105.**
Contribution of Amy R. Sapkota: Conceived study idea; designed sampling strategy; supervised data collection and data input; led and performed the data analysis; and wrote the entire manuscript. Served as the corresponding author.
17. **Sapkota AR[†]**, Hulet RM, Zhang G, McDermott P, Kinney EL*, Schwab KJ, Joseph SW. 2011. Lower prevalence of antibiotic-resistant enterococci on U.S. conventional poultry farms that transitioned to organic practices. *Environmental Health Perspectives* 119(11):1622-8. **Impact Factor: 8.38. Cited: 59.**
Secondary Write-up: This article was selected by the journal, *Environmental Health Perspectives* as one of their Science Selections:
<http://ehp03.niehs.nih.gov/article/fetchArticle.action?articleURI=info%3Adoi%2F10.1289%2Fehp.119-a489b>
Contribution of Amy R. Sapkota: Conceived study idea; designed sampling strategy; supervised data collection and laboratory analysis; assisted in the statistical analysis; and wrote the entire manuscript. Served as the corresponding author.
18. Micallef SA**, Rosenberg Goldstein RE*, George A[#], Kleinfelter L[#], Boyer MS, McLaughlin CR, Ewing L, Jean-Gilles Beaubrun J, Hanes DE, Kothary MH, Razeq JH, Joseph SW, **Sapkota AR[†]**. 2012. Occurrence and antibiotic resistance of multiple *Salmonella* serotypes recovered from water, sediment and soil on Mid-Atlantic tomato farms. *Environmental Research* 114:31-9.
Impact Factor: 5.026. Cited: 92.
Contribution of Amy R. Sapkota: Conceived study idea; designed sampling strategy; supervised data collection and laboratory analysis; wrote major portions of the manuscript. Served as the corresponding author.
19. Jean-Gilles Beaubrun J, Cheng C, Chen K, Ewing L, Wang H, Agpaoa MC, Huang MJ, Dickey E, Du JM, Williams-Hill DM, Hamilton B, Micallef SA**, Rosenberg Goldstein RE*, George A[#], Joseph SW, **Sapkota AR**, Jacobson AP, Tall BD, Kothary MH, Dudley K and Hanes DE. 2012. The evaluation of a PCR-based method for identification of *Salmonella enterica* serotypes from environmental samples and various food matrices. *Food Microbiology*. 31(2):199-209. **Impact Factor: 3.451. Cited: 28.**
Contribution of Amy R. Sapkota: Provided the environmental *Salmonella* isolates; assisted in the study design; and contributed to the manuscript.
20. Rosenberg Goldstein RE*, Micallef SA**, Gibbs SG, Davis JA, He X, George A[#], Kleinfelter LM[#], Schreiber NA[#], Mukherjee S, Sapkota A, Joseph SW, and **Sapkota AR[†]**. 2012. Methicillin-resistant *Staphylococcus aureus* detected at four U.S. wastewater treatment plants. *Environmental Health Perspectives* 120:1551–1558. **Impact Factor: 8.38. Cited: 117.**
Secondary Write-up: This article was selected by the journal, *Environmental Health Perspectives* as one of their Science Selections: <https://ehp.niehs.nih.gov/120-a437a/>
Contribution of Amy R. Sapkota: Conceived study idea; designed sampling strategy; supervised data collection, laboratory analysis and statistical analysis; wrote major portions of the manuscript. Served as the corresponding author.
21. Pasturel BZ*, Cruz-Cano R, Rosenberg Goldstein RE*, Palmer A, Blythe D, Ryan P, Hogan B, Jung C, Joseph SW, Wang MQ, Ting Lee ML, Puett R, and **Sapkota AR[†]**. 2013. Rurality, presence of broiler operations and community socioeconomic factors influence the risk of campylobacteriosis in Maryland. *American Journal of Public Health* 103(12):2267-75. **Impact Factor: 5.381. Cited: 15.**

Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.

22. Micallef SA**, Rosenberg Goldstein RE*, George A#, Ewing L, Tall BD, Boyer MS, Joseph SW, and **Sapkota AR**[†]. 2013. Diversity, distribution and antibiotic resistance of *Enterococcus* spp. recovered from tomatoes, leaves, water and soil on U.S. Mid-Atlantic farms. *Food Microbiology* 36:465-474. **Impact Factor: 3.451. Cited: 40.**

Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.

23. Rosenberg Goldstein RE*, Micallef SA**, Gibbs SG, George A#, Claye E, Sapkota A, Joseph SW, and **Sapkota AR**[†]. 2014. Detection of vancomycin-resistant enterococci (VRE) at four U.S. wastewater treatment plants that provide effluent for reuse. *Science of the Total Environment* 1;466-467C:404-411. doi: 10.1016/j.scitotenv.2013.07.039. **Impact Factor: 6.551. Cited: 82.**

Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.

24. **Sapkota AR**[†], Kinney EL*, George A#, Hulet RM, Cruz-Cano R, Schwab KJ, Zhang G, Joseph SW. 2014. Lower prevalence of antibiotic-resistant *Salmonella* on large-scale U.S. conventional poultry farms that transitioned to organic practices. *Science of the Total Environment* 1;476-477:387-92. doi: 10.1016/j.scitotenv.2013.12.005. **Impact Factor: 6.551. Cited: 37.**

Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote the entire manuscript. Served as the corresponding author.

25. Shaw KS*[†], Rosenberg Goldstein RE*, He X, Jacobs JM, Crump BC, **Sapkota AR**. 2014. Antimicrobial susceptibility of *Vibrio vulnificus* and *Vibrio parahaemolyticus* recovered from recreational and commercial areas of the Chesapeake Bay and Maryland Coastal Bays. *PLoS One* 9(2):e89616. doi: 10.1371/journal.pone.0089616. **Impact Factor: 2.776. Cited: 109.**

Contribution of Amy R. Sapkota: Directed the antimicrobial susceptibility testing; and wrote major portions of the manuscript. Served as the senior author.

26. Rosenberg Goldstein RE*, Micallef SA**, Gibbs SG, He X, George A#, Sapkota A, Joseph SW, and **Sapkota AR**[†]. 2014. Occupational exposure to *Staphylococcus aureus* and *Enterococcus* spp. among spray irrigation workers using reclaimed water. *International Journal of Environmental Research and Public Health* 11(4), 4340-4355; doi:10.3390/ijerph110404340. **Impact Factor: 2.468. Cited: 26.**

Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.

27. Hosgood HD*[§], **Sapkota AR**[§], Rothman N, Rohan T, Wei H, , Xu J, Vermeulen R, He X, White JR, Wu G, Wei F, Mongodin EF, and Lan, Q. 2014. The potential role of lung microbiota in lung cancer attributed to household coal burning exposures. *Environmental and Molecular Mutagenesis*. 55(8):643-51. doi: 10.1002/em.21878 **Impact Factor: 3.131. Cited: 76.**

Contribution of Amy R. Sapkota: Completed DNA extractions; facilitated 16S rRNA sequencing; assisted in data analysis; and wrote significant portions of the manuscript. Served as co-first author.

28. Shaw KS*[†], **Sapkota AR**, Jacobs JM, Crump BC. 2015. Recreational swimmers' exposure to *Vibrio vulnificus* and *Vibrio parahaemolyticus* in the Chesapeake Bay, Maryland, USA. *Environment International* 74:99-105. doi: 10.1016/j.envint.2014.09.016. **Impact Factor: 7.943. Cited: 19.**

Contribution of Amy R. Sapkota: Assisted in the study design; revised and wrote major portions of the manuscript.

29. Jiang C[§], Shaw KS^{**§}, Upperman CR^{*}, Blythe D, Mitchell C, Murtugudde R, **Sapkota AR[§]**, Sapkota A^{§,†}. 2015. Climate change, extreme events and increased risk of salmonellosis: Evidence for coastal vulnerability. *Environment International*. 83:58-62. doi: 10.1016/j.envint.2015.06.006. **Impact Factor: 7.943. Cited: 46.**
Contribution of Amy R. Sapkota: Assisted in the study design; revised and wrote major portions of the manuscript. Served as co-senior author.
30. Carey SA^{*}, Rosenberg Goldstein RE^{**}, Gibbs SG, Claye E, He, X, **Sapkota AR[†]**. 2016. Occurrence of vancomycin-resistant and –susceptible *Enterococcus* spp. in reclaimed water used for spray irrigation. *Environmental Research*. 147:350-355. doi: 10.1016/j.envres.2016.02.030. **Impact Factor: 5.026. Cited: 16.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.
31. Soneja S^{**}, Jiang C, Upperman CR, Murtugudde R, Mitchell C, Blythe D, **Sapkota AR[§]**, Sapkota A^{§,†}. 2016. Extreme precipitation events and increased risk of campylobacteriosis in Maryland, U.S.A. *Environmental Research*. 149:216-221. doi: 10.1016/j.envres.2016.05.021. **Impact Factor: 5.026. Cited: 21.**
Contribution of Amy R. Sapkota: Assisted in the study design; and contributed to major portions of the manuscript. Served as co-senior author.
32. Shaw KS^{**}, Cruz-Cano R, Jiang C, Malayil L, Palmer A, Blythe D, Ryan P, **Sapkota AR[†]**. 2016. Presence of animal feeding operations and community socioeconomic factors impact salmonellosis incidence rates: Foodborne diseases active surveillance network (FoodNet), 2004-2010. *Environmental Research*. 150:166-172. doi: 10.1016/j.envres.2016.05.049. **Impact Factor: 5.026. Cited: 4.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and re-wrote the manuscript. Served as the corresponding author.
33. Rosenberg Goldstein RE^{**}, Cruz-Cano R, Jiang C, Palmer A, Blythe D, Ryan P, Hogan B, White B, Dunn JR, Libby T, Tobin-D'Angelo M, Huang J, McGuire S, Scherzinger K, Lee MLT, **Sapkota AR[†]**. 2016. Association between community socioeconomic factors, animal feeding operations and Campylobacteriosis incidence rates: Foodborne diseases active surveillance network (FoodNet), 2004-2010. *BMC Infectious Diseases*. 16:354. doi: 10.1186/s12879-016-1686-9. **Impact Factor: 2.580 Cited: 19.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.
34. Chopyk J^{*}, Chattopadhyay S^{*}, Kulkarni P^{*}, Claye E^{*}, Babik KR^{*}, Reid MC^{*}, Smyth EM^{**}, Hittle LE, Paulson JN, Cruz-Cano R, Pop M, Clark PI, **Sapkota AR[§]**, Mongodin EF^{§,†}. 2017. Mentholation affects the cigarette microbiota by selecting for bacteria resistant to harsh environmental conditions and selecting against potential bacterial pathogens. *Microbiome*. 15;5(1):22. doi: 10.1186/s40168-017-0235-0. **Impact Factor: 10.350. Cited:16.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and laboratory analyses; and revised the manuscript. Served as co-senior author.
35. Chopyk J^{*}, Chattopadhyay S, Kulkarni P^{*}, Smyth EM^{**}, Hittle LE, Paulson JN, Pop M, Clark PI, Mongodin EF[§], **Sapkota AR^{§,†}**. 2017. Temporal variations in cigarette tobacco bacterial community composition and tobacco-specific nitrosamine content are influenced by brand and storage conditions. *Frontiers in Microbiology*. 7(8):358. doi: 10.3389/fmicb.2017.00358. **Impact Factor: 4.076 Cited: 9.**

Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.

36. Boyle M*, Soneja S**, Quiros-Alcala L, Dalemarré L, **Sapkota AR**, Sangaramoorthy T, Wilson S, Milton D, Sapkota A. 2017. A pilot study to assess residential noise exposure near natural gas compressor stations. *PLoSOne*. 12(4): e0174310. doi: 10.1371/journal.pone.0174310. **Impact Factor: 2.776 Cited: 10.**

Contribution of Amy R. Sapkota: Assisted in study design and analysis; and revised the manuscript.

37. Rosenberg Goldstein RE**†, Kleinfelter L*, He X, Micallef SA, George A, Gibbs SG, **Sapkota AR**. 2017. Higher prevalence of coagulase-negative staphylococci carriage among reclaimed water spray irrigators. *Science of the Total Environment*. 595(1):35-40. doi: 10.1016/j.scitotenv.2017.03.174. **Impact Factor: 6.551. Cited: 7.**

Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.

38. Smyth EM**, Kulkarni P*, Claye E*, Stanfill S, Tyx R, Mongodin EF, **Sapkota AR**†. 2017. Smokeless tobacco products harbor diverse bacterial communities that differ across products and brands. *Applied Microbiology and Biotechnology*. Jul;101(13):5391-5403. doi: 10.1007/s00253-017-8282-9. **Impact Factor: 3.670. Cited: 7.**

Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.

39. Kulkarni P*, Olson N*, Raspanti G*, Rosenberg Goldstein R**, Gibbs SG, Sapkota A, **Sapkota AR**†. 2017. Antibiotic concentrations decrease during wastewater treatment but persist at low levels in reclaimed water. *International Journal of Environmental Research and Public Health*. doi: 10.3390/ijerph14060668. Jun 21;14(6). **Impact Factor: 2.468. Cited: 44.**

Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.

40. Huang JY, Patrick ME, Manners J, **Sapkota AR**, Scherzinger KJ, Tobin-D'Angelo M, Henao OL, Cole DJ, Vieira AR. 2017. Association between wetland presence and incidence of *Salmonella enterica* serotype Javiana infections in selected US sites, 2005-2011. *Epidemiology and Infection*, 145(14):2991-2997. doi: 10.1017/S0950268817001790. **Impact Factor: 2.075. Cited: 5.**

Contribution of Amy R. Sapkota: Assisted in study design and analysis; and revised the manuscript.

41. Chopyk J*, Allard S**, Nasko DJ**, Bui A#, Mongodin EF, **Sapkota AR**. 2018. Agricultural freshwater pond supports diverse and dynamic bacterial and viral populations. *Frontiers in Microbiology*, 9: 792. doi: 10.3389/fmicb.2018.00792. **Impact Factor: 4.076 Cited: 13.**

Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.

42. Kulkarni P**, Olson ND*, Paulson JN, Pop M, Maddox C, Claye E, Rosenberg Goldstein RE, Sharma M, Gibbs SG, Mongodin EF, **Sapkota AR**†. 2018. Conventional wastewater treatment and reuse site practices modify bacterial community structure but do not eliminate some opportunistic pathogens in reclaimed water. *Science of the Total Environment*, 639:1126–1137. doi: 10.1016/j.scitotenv.2018.05.178. **Impact Factor: 6.551 Cited: 18.**

Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.

43. Murray R*, Rosenberg Goldstein RE, Maring E, Pee D, Aspinwall K, Wilson S, **Sapkota AR**[†]. 2018. Prevalence of microbiological and chemical contaminants in private drinking water wells in Maryland, USA. *International Journal of Environmental Research and Public Health*, 15, 1686. doi: 10.3390/ijerph15081686. **Impact Factor: 2.468 Cited: 3.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised data collection and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.
44. **Sapkota AR**[†]. 2019. Water reuse, food production and public health: Adopting transdisciplinary, systems-based approaches to achieve water and food security in a changing climate. *Environmental Research*, 171, 576-580. doi: 10.1016/j.envres.2018.11.003. **Impact Factor: 5.026. Cited: 13.**
Contribution of Amy R. Sapkota: Conceived manuscript idea; wrote the manuscript. Served as the corresponding author.
45. Zhu L*, Torres M, Betancourt WQ, Sharma M, Micallef SA, Gerba C, **Sapkota AR**, Sapkota A, Parveen S, Hashem F, May E, Kniel-Tolbert KE, Pop M, Ravishankar S. 2019. Incidence of fecal indicator and pathogenic bacteria in reclaimed and return flow waters in Arizona, USA. *Environmental Research*, 170, 122-127. doi: 10.1016/j.envres.2018.11.048. **Impact Factor: 5.026. Cited: 0.**
Contribution of Amy R. Sapkota: Assisted in the study design; and contributed to major portions of the manuscript.
46. Chattopadhyay S*, Smyth EM**, Prachi Kulkarni*, Kelsey R. Babik*, Molly Reid*, Hittle LE, Clark P, Mongodin EF, **Sapkota AR**[†]. 2019. Little cigars and cigarillos harbor diverse bacterial communities that differ between the tobacco and the wrapper. *PLoS ONE*, 14(2):e0211705. doi: 10.1371/journal.pone.0211705. **Impact Factor: 2.766 Cited: 2.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.
47. Kulkarni P*, Raspanti GA**, Bui AQ#, Bradshaw RN*, Kniel K, Chiu P, Sharma M, Sapkota A, **Sapkota AR**[†]. 2019. Zerovalent iron-sand filtration can reduce the concentration of multiple antimicrobials in conventionally treated reclaimed water. *Environmental Research*, 172, 301-309. doi: 10.1016/j.envres.2019.02.012. **Impact Factor: 5.026. Cited: 5.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.
48. Allard SM**, Callahan MT, Bui A*, Ferelli A*, Chopyk J*, Chattopadhyay S*, Mongodin EF, Micallef SA, **Sapkota AR**[†]. 2019. Creek to Table: Tracking fecal indicator bacteria, bacterial pathogens, and total bacterial communities from irrigation water to kale and radish crops. *Science of the Total Environment*, 666, 461-471. doi: 10.1016/j.scitotenv.2019.02.179. **Impact Factor: 6.551 Cited: 6.**
Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.
49. Allard S**, Solaiman S*, Callahan MT*, Bui A, Kelbick HC*, Haymaker J*, Foust D*, Duncan R*, Smyth E**, Mongodin EF, Hashem F, Micallef S, **Sapkota AR**[†]. 2019. Quenching by sodium thiosulfate does not influence 16S rRNA gene sequencing profiles of reclaimed water from three sites in the Mid-Atlantic, United States. *Environmental Research*, 172:296-300. doi: 10.1016/j.envres.2019.02.022. **Impact Factor: 5.026. Cited: 1.**
Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.
50. Haymaker J*, Sharma M, Parveen S, Hashem F, May E, Handy E, White C, East C, Bradshaw R*, Micallef SA, Callahan MT, Allard SM**, Anderson B*, Craighead S*, Gartley S*, Vanore A*, Kniel KE, Solaiman S*, Bui A, Murray R*, Craddock HA*, Kulkarni P**, Foust D*, Duncan R*, Taabodi M, and **Sapkota AR**. 2019. Prevalence of Shiga toxin-producing and atypical enteropathogenic *Escherichia*

coli in untreated surface water and reclaimed water in the Mid-Atlantic U.S. *Environmental Research*, 172:630-636. doi: 10.1016/j.envres.2019.02.019. **Impact Factor: 5.026. Cited: 5.**
Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.

51. Hosgood D, Mongodin EF, Wan Y, Hua X, Rothman N, Hu W, Vermeulen R, Seow WJ, Rohan T, Xu J, Li J, He J, Huang Y, Yang K, Wu G, Wei F, Shi J, **Sapkota AR**, Lan Q. 2019. The respiratory tract microbiome and its relationship to lung cancer and environmental exposures found in rural China. *Environmental and Molecular Mutagenesis*, 60(7):617-623. doi: 10.1002/em.22291. **Impact Factor: 3.131. Cited: 4.**
Contribution of Amy R. Sapkota: Assisted in study design and analysis; and revised the manuscript.
52. Chopyk J*, Kulkarni P**, Nasko DJ**, Bradshaw R*, Kniel KE, Chiu P, Sharma M, **Sapkota AR**†. 2019. Zero-valent iron sand filtration reduces concentrations of virus-like particles and modifies virome community composition in reclaimed water used for agricultural irrigation. *BMC Research Notes*, 11:12(1):223. doi: 10.1186/s13104-019-4251-y. **Impact Factor: 1.540 Cited: 2.**
Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.
53. Panthi S*, **Sapkota AR**, Raspanti G**, Allard S**, Bui A#, Craddock H*, Murray R*, Zhu L, East C, Handy E, Callahan MT, Haymaker J*, Kulkarni P**, Anderson B, Craighead S, Gartley S, Vanore A, Betancourt WQ, Duncan R, Foust D, Sharma M, Micallef SA, Gerba C, Parveen S, Hashem F, May E, Kniel K, Pop M, Ravishankar S, and Sapkota A. 2019. Pharmaceuticals, herbicides and disinfectants in agricultural water sources. *Environmental Research*, 174:1-8. doi: 10.1016/j.envres.2019.04.011. **Impact Factor: 5.026. Cited: 6.**
Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript.
54. Smyth EM**, Chattopadhyay S, Chopyk J*, Malayil L*, Kulkarni P**, Hittle LE**, Clark PI, **Sapkota AR** Mongodin EF†. 2019. The bacterial communities of little cigars and cigarillos are dynamic over time and varying storage conditions. *Frontiers in Microbiology*, 10: 2371. doi: [10.3389/fmicb.2019.02371](https://doi.org/10.3389/fmicb.2019.02371) **Impact Factor: 4.076 Cited: 3.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.
55. Craddock HA*, Panthi S*, Rjoub Y, Lipchin C, Sapkota A, **Sapkota AR**†. 2020. Antibiotic and herbicide concentrations in household greywater reuse systems and pond water used for food crop irrigation: West Bank, Palestinian Territories. *Science of the Total Environment*, 699:134205. doi: [10.1016/j.scitotenv.2019.134205](https://doi.org/10.1016/j.scitotenv.2019.134205) **Impact Factor: 6.551. Cited: 5.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.
56. Chopyk J*, Nasko DJ, Allard S**, Bui A, Treangen T, Pop M, Mongodin EF, **Sapkota AR**†. 2020 Comparative metagenomic analysis of microbial taxonomic and functional variations in untreated surface and reclaimed waters used in irrigation applications. *Water Research*. 169:115250. **Impact Factor: 9.130 Cited: 1.**
Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.
57. Chopyk J*, Nasko CJ, Allard S**, Callahan MT, Bui A, Ferelli AMC*, Chattopadhyay S, Mongodin EF, Pop M, Micallef S, **Sapkota AR**†. 2020. Metagenomic analysis of bacterial and viral assemblages from a freshwater creek and irrigated field reveals temporal and spatial dynamics. *Science of the Total Environment*, 205:135395. doi: 10.1016/j.scitotenv.2019.135395. **Impact Factor: 6.551. Cited: 1.**

Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.

58. Sharma M, Handy ET, East CL, Seongyun K**, Jiang C, Callahan MT, Allard SM**, Micallef SA, Craighead SA*, Anderson-Coughlin B*, Gartley S*, Vanore A*, Kniel KE, Haymaker JR*, Duncan R*, Foust D*, White C*, Taabodi M, Hashem F, Pareen S, May EB, Bui A, Craddock H, Kulkarni P, Murray RT**, **Sapkota AR**. 2020. Prevalence of *Salmonella* and *Listeria monocytogenes* in non-traditional irrigation waters in the Mid-Atlantic United States is affected by water type, season, and recovery method. *PLOS One* [In Press]. **Impact Factor: 2.776. Cited: 2.**
Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript.
59. Malayil L*, Chattopadhyay S, Kulkarni P**, Hittle L, Clark PI, Mongodin EF[§], **Sapkota AR[§]**. 2020. Mentholation triggers brand-specific shifts in the bacterial microbiota of commercial cigarette products. *Applied Microbiology and Biotechnology*. 104; 6287–6297. **Impact Factor: 3.530. Cited: 0.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.
60. Murray R**, Cruz-Cano R, Nasko D, Blythe D, Ryan P, Boyle M, Wilson S, **Sapkota AR[†]**. 2020. Association between Private Drinking Water Wells and the Incidence of Campylobacteriosis in Maryland: An Ecological Analysis Using Foodborne Diseases Active Surveillance Network (FoodNet) Data (2007-2016). *Environmental Research* [In Press]. **Impact Factor: 5.026. Cited: 0.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.
61. Craddock HA*, Chattopadhyay S, Rjoub Y, Rosen D, Grief J, Lipchin C, Mongodin EF, **Sapkota AR[†]**. 2020. Antibiotic-resistant *Escherichia coli* and *Klebsiella* spp. in greywater reuse systems and pond water used for agricultural irrigation in the West Bank, Palestinian Territories. *Environmental Research*. 188:109777. doi: 10.1016/j.envres.2020.109777. **Impact Factor: 5.026. Cited: 0.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.
62. Kim S**, Bradshaw R*, Kulkarni P**, Allard S**, Chiu P, **Sapkota AR**, Newell MJ, Handy ET, East CL, Kniel KE, Sharma M. 2020. Zero-valent iron filtration reduces *Escherichia coli* in surface water and leafy green growing environments. *Frontiers in Sustainable Food Systems*. 4;112. <https://doi.org/10.3389/fsufs.2020.00112> **Impact Factor: Cited: 0.**
Contribution of Amy R. Sapkota: Contributed to study idea; contributed to laboratory analyses; and revised the manuscript.
63. Malayil L**, Ramachandran P, Chattopadhyay S*, Cagle R, Hittle L, Ottesen A, Mongodin EF, **Sapkota AR[†]**. 2020. Metabolically-active bacteria in reclaimed water and ponds revealed using bromodeoxyuridine DNA labeling coupled with 16S rRNA and shotgun sequencing. *Water Research*. 184;116185. **Impact Factor: 9.130. Cited: 0.**
Contribution of Amy R. Sapkota: Conceived study idea; designed study; supervised experiments and statistical analysis; and wrote major portions of the manuscript. Served as the corresponding author.
64. Solaiman S*, Allard SM**, Callahan MT, Jiang CJ, Handy ET, East C, Haymaker J*, Bui A, Craddock H*, Murray R**, Kulkarni P**, Anderson B*, Craighead S*, Gartley S*, Vanore A*, Duncan R*, Foust D*, Taabodi M, Sapkota A, May E, Hashem F, Parveen S, Kniel K, **Sapkota AR**, Micallef SA. 2020. A longitudinal assessment of *Escherichia coli*, total coliforms, *Enterococcus* and *Aeromonas* spp. dynamics in alternative irrigation water sources: A CONSERVE study. *Applied and Environmental Microbiology*. 86;20:e00342-20. <https://doi.org/10.1128/AEM.00342-20>. **Impact Factor: Cited: 0.**
Contribution of Amy R. Sapkota: Conceived study idea; contributed to laboratory analyses; and revised the manuscript.

65. Chopyk J*†, Nasko D, Allard S**, Bui A*, Pop M, Mongodin EF, **Sapkota AR**. 2020. Seasonal dynamics in taxonomy and function within bacterial and viral metagenomic assemblages recovered from a freshwater agricultural pond. *Environmental Microbiome*. 15;18. **Impact Factor: Cited: 0.**
Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.
66. Kulkarni P**, Olson ND, Bui AQ, Bradshaw RN, Del Collo LP, Hittle LE, Handy ET, Paulson JN, Ghurye J, Nasko DJ, East C, Kniel KE, Chiu PC, Mongodin EF, Pop M, Sharma M, **Sapkota AR**†. 2020. Zero-valent iron sand filtration can reduce human and plant pathogenic bacteria while increasing plant growth promoting bacteria in reclaimed water. *Frontiers in Environmental Science*. [In Press]. **Impact Factor: Cited: 0.**
Contribution of Amy R. Sapkota: Conceived study idea; supervised experiments and laboratory analyses; and revised the manuscript. Served as the corresponding author.
67. Zhu L**, Jiang C, Panthi S*, Allard SM**, **Sapkota AR**, Sapkota A†. 2021. Impact of high precipitation and temperature events on the distribution of emerging contaminants in surface water in the Mid-Atlantic, United States. *Science of the Total Environment*. 755;2:142552.
<https://doi.org/10.1016/j.scitotenv.2020.142552> **Impact Factor: Cited: 0.**
Contribution of Amy R. Sapkota: Assisted in the study design; contributed to data interpretation; revised major portions of the manuscript.

Articles Submitted to Peer-reviewed Journals

68. Chattopadhyay S*, Arnold JD, Malayil L**, Hittle LE**, Mongodin EF, Marathe KS, **Sapkota AR**†, Gomez-Lobo V. Potential role of the skin and gut microbiota in premenarchal vulvar lichen sclerosis: a pilot case-control study. [Under Review].
69. Malayil L**, Chattopadhyay S*, Hittle LE, Mongodin EM, **Sapkota AR**†. Coupled DNA-labeling and sequencing approach enables the detection of viable-but-non-culturable *Vibrio* spp. in irrigation water sources in the Chesapeake Bay watershed. [Under Review].
70. Malayil L**, Negahban-Azar M, Rosenberg Goldstein R, Sharma M, Gleason J, Muise A, Murray R, **Sapkota AR**†. “Zoom”ing our way through virtual undergraduate laboratory internships in a pandemic summer. [Under Review].
71. Craddock H*, Jones K, Rjoub Y, Lipchin C, **Sapkota AR**. Perceptions on the use of recycled water for produce irrigation and household tasks: A comparison between Israeli and Palestinian consumers. [Under Review].
72. Anderson-Coughlin BL, Craighead S, Kelly A, Gartley S, Vanore A, Johnson G, Jiang C, Haymaker J, White C, Foust D, Duncan R, East C, Handy ET, Bradshaw R, Murray R, Kulkarni P, Callahan MT, Solaiman S, Betancourt W, Gerba C, Allard S, Parveen S, Hashem F, Micallef SA, Sapkota A, **Sapkota AR**, Sharma M, and Kniel KE. Virus prevalence and suitability of viral indicators in select Mid-Atlantic agricultural waters. [Under Review].
73. Craighead S, Anderson-Coughlina B, Gartley S, Vanore A, Kelly A, Omara A, Jiang C, Haymaker J, Foust D, Duncan R, White C, East C, Handy E, Allard S, Murray R, Callahan MT, Solaiman S, Betancourt W, Gerba C, Parveen S, Hashem F, Micallef SA, Sapkota A, Sapkota AR, Sharma M, and Kniela KE. The presence of *Cryptosporidium* spp., *Giardia intestinalis*, and *Toxoplasma gondii* in non-traditional sources of agricultural water in the Mid-Atlantic U.S. region. [Under Review].

74. Paul M, Dangol S, Kholodovsky V, **Sapkota AR**, Negahban-Azar M, Lansing S. Modeling the impacts of climate change on crop yield and irrigation in the Monocacy River Watershed, USA. [Under Review].

Articles In Preparation

75. Allard S**, Treangen T, Handy E, East C, Solaiman S, Callahan MT, Chopyk J, Nasko D, Bui A, Kelbick HC, Mongodin E, Micallef S, Pop M, Sharma M, **Sapkota AR**. To catch a pathogen: Comparison of 16S rRNA gene sequencing, shotgun metagenomics, and culture-based methods for the detection of foodborne pathogens in non-traditional irrigation water in Maryland, United States. [In Preparation].
76. Malayil L**, Chattopadhyay S*, Bui A, Panse M, Cagle R, Hittle L, Mongodin EF, **Sapkota AR**. Detection of viable bacteria in mainstream smoke. [In preparation].
77. Chattopadhyay S*, Malayil L, Hittle LE, Clark PI, Mongodin EF, **Sapkota AR**. Nicotine concentration and mentholation affect bacterial community diversity in SPECTRUM research cigarettes. [In preparation].

Book Chapters

1. **Sapkota AR**. Chapter 26: Other Water Pollutants: Antibiotic-Resistant Bacteria. Water and Sanitation Related Diseases and the Environment: Challenges, Interventions and Preventive Measures. Janine M. H. Selendy (Editor). ISBN: 978-0-470-52785-6. November 2011, Wiley-Blackwell.

Reports

1. **Chapin AR**, Boulind C, Moore A. 1998. *Controlling Odor and Gaseous Emission Problems from Industrial Swine Facilities: A Handbook for All Interested Parties*. The Kerr Center for Sustainable Agriculture. Poteau, OK.
Contribution of Amy R. Sapkota: Performed literature review and wrote 1/3 of the report.
2. **Chapin AR**, Venezia R. 2000. *A Message About Cancer Clusters from the Maryland Department of Health and Mental Hygiene*. Office of Environmental Health, Maryland Department of Health and Mental Hygiene. Baltimore, MD.
Contribution of Amy R. Sapkota: Developed, organized, wrote and designed the entire report.

Invited National and International Presentations (Chapin is maiden name)

1. **Chapin AR**. Environmental health effects of industrial swine production. Invited Oral Presentation. United States Geological Survey, Animal Feeding Operations Conference. Fort Collins, CO. August 1999.
2. **Chapin AR**. Managing chicken waste: policies and ideas at the state, national and international levels. Invited Oral Presentation. Yale University Conference, The Chicken: Its Biological, Social, and Industrial History. New Haven, CT. May 2002.
3. **Sapkota AR**. Animal agriculture and antibiotic resistance: Do organic practices make a difference? Invited Oral Presentation. Washington University in St. Louis, School of Engineering, Department of Energy, Environmental and Chemical Engineering. St. Louis, MO. March 14, 2008.
4. **Sapkota AR**, Joseph SW, Cullen P, Wagner D, Hulet M, Hayes J, Sahu S, Gadwal S, Carr LE, Hooberman B. Reduced resistance to antibiotics among *Salmonella* spp. recovered from U.S. organic poultry farms. Invited Oral Presentation. American Society for Microbiology (ASM), Conference on

Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens. Copenhagen, Denmark. June 2008.

5. **Sapkota AR.** Concentrated animal feeding operations and antimicrobial resistance: Does adopting organic practices make a difference? Invited Oral Presentation. Society of Toxicology, National Capitol Area Chapter. "Food Safety—From Farm to Table" Conference. University of Maryland. College Park, MD. October 28, 2010.
6. **Sapkota AR.** Agriculture, Water and Public Health. Invited Oral Presentation/Webinar Talk. Creating Common Ground: Sustainable Agriculture & Food Systems Funders. November 18, 2013.
7. **Sapkota AR.** Distinguished Women in Environmental Health Sciences. Invited Panelist. Johns Hopkins Bloomberg School of Public Health, April 11, 2014. Baltimore, MD.
8. **Sapkota AR.** Aquatic Environments as Reservoirs of Antibiotic-resistant Bacteria. Invited Speaker in Symposium entitled "Surrounded by the enemy? The environment and foodstuffs as sources or reservoirs of antimicrobial resistance threats." Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)/International Congress on Chemotherapy (ICC), September 17-21, 2015. San Diego, CA.
9. **Sapkota AR.** Safe Water to Grow Healthy Food in a Changing Climate. Invited Speaker in Symposium entitled "Climate Change Resilience/Adaptation: Health and Agroecosystem." Climate Action Summit 2016: Catalyzing a Sustainable Future, May 4, 2016. College Park, MD.
10. **Sapkota AR.** Influence of local tobacco use on the oral microbiota and lung cancer risk in Nepal. Invited Speaker. B.P. Koirala Memorial Cancer Hospital, January 23, 2017. Bharatpur, Nepal.
11. **Sapkota AR.** Microbes within us: Friends or foes? Impacts of the oral microbiota on lung cancer risk in Nepal. Invited Speaker. U.S. Embassy in Nepal. June 12, 2017. Kathmandu, Nepal.
12. **Sapkota AR.** Recycled water, crop irrigation, and public health: moving the science forward to achieve sustainable water reuse in a changing climate. Invited Speaker in Symposium entitled "Moving toward the safe use of recycled water for crop irrigation: a sustainable solution in an era of climate variability?" International Association for Food Protection Annual Meeting, July 11, 2017. Tampa, FL.
13. **Sapkota AR.** Water reuse, crop irrigation, and public health: moving the science forward to achieve safe and sustainable water reuse in a changing climate. Invited Speaker in Symposium entitled "Moving towards safe water reuse for food crop irrigation: a sustainable solution in an era of climate variability?" 11th International Water Association International Conference on Water Reclamation and Reuse, July 23-27, 2017. Long Beach, CA.
14. **Sapkota AR.** Wastewater reclamation, antibiotic resistance, and protection of public health. Invited Speaker in Symposium entitled "Antibiotic Resistance: What Every Water Professional Needs to Know." 11th International Water Association International Conference on Water Reclamation and Reuse, July 23-27, 2017. Long Beach, CA.
15. **Sapkota AR.** The CONSERVE Program: Transdisciplinary Research, Extension and Education at the Nexus of Sustainable Water Reuse, Food and Health. Invited Webinar. ANREP and Climate Learning Network Webinar Series, December 7, 2017.
16. **Sapkota AR.** Water reuse, crop irrigation and public health: Moving the science forward to achieve safe and sustainable water reuse in a changing climate. Invited speaker. Arava Institute for Environmental Studies, Ketura, Israel, December 28, 2017.

17. **Sapkota AR.** Water reuse, food crop irrigation and public health. Invited Speaker. Water Reuse, Food and Health Forum. Kibbutz Tzuba, Tzovah, Israel, January 3, 2018.
18. **Sapkota AR.** Water reuse, crop irrigation, and public health: Moving the science forward to achieve safe and sustainable water reuse in a changing climate. 2nd 1890 ARD and USDA-ARS Food Safety Symposium, Beltsville, MD, April 25, 2018.
19. **Sapkota AR.** Potential public health impacts of reusing water on food crops. Invited Speaker. 2018 Water Research Foundation Conference, Atlanta, Georgia, May 6, 2018.
20. **Sapkota AR.** Recycled Irrigation Water Microbiomes, Human Exposure Pathways and Potential Human Health Impacts. Invited Speaker. Global Water Reuse, Food and Health Workshop, College Park, MD, October 9, 2018.
21. **Sapkota AR.** Recycled water, food crop irrigation and public health: Moving the science forward to achieve sustainable water reuse in a changing climate. Invited Speaker. AWRA Annual Conference, Baltimore, MD, November 6, 2018.
22. **Sapkota AR.** One water and public health: Research to action through outreach and education. Invited Speaker. Presidential Advisory Council on Controlling Antibiotic Resistance Public Meeting, U.S. Department of Health and Human Services, Washington, D.C., January 31, 2019.
23. **Sapkota AR.** Antimicrobial resistance and the intersections of water reuse, food and health. Urbanization, Water and Food Security, Gordon Research Conference. The Hong Kong University of Science and Technology. July 21-26, 2019.
24. **Sapkota AR.** Refining sampling and analysis approaches to advance understanding of the microbiological risks of agricultural water reuse. Global Water and Food Safety Summit. U.S. Food and Drug Administration and University of Maryland Joint Institute of Food Safety and Applied Nutrition. College Park, MD. November 19, 2019.

Invited Local Presentations (Chapin is maiden name)

1. **Chapin AR.** The dynamic genomes of bacteria that allow them to thrive in the environment and in us. Invited Speaker. Johns Hopkins Bloomberg School of Public Health Rededication Ceremony. Johns Hopkins Bloomberg School of Public Health, Baltimore, MD. April 2004.
2. **Sapkota AR.** Animal feed components and the impacts of land-applying manure on soil bacterial biodiversity and antibiotic resistance. Invited Oral Presentation. Center for a Livable Future Research Day. Johns Hopkins Bloomberg School of Public Health. Baltimore, MD. April 2008.
3. **Sapkota AR.** Animal agriculture and antibiotic resistance: Do organic practices make a difference? Invited Oral Presentation. Department of Epidemiology and Biostatistics Seminar Series. University of Maryland School of Public Health. College Park, MD April 18, 2008.
4. **Sapkota AR, Joseph SW, Estrin A, Boyer M, McLaughlin C.** Evaluating public health impacts and cost-effectiveness of implementing good agricultural practices (GAPs) in the tomato farm environment. Invited Oral Presentation. University of Maryland, Joint Institute for Food Safety and Applied Nutrition, Advisory Council Meeting. College Park, MD. March 11, 2009.
5. **Sapkota AR, Joseph SW, Estrin A, Boyer M, McLaughlin C.** Evaluating public health impacts and cost-effectiveness of implementing good agricultural practices (GAPs) in the tomato farm environment.

Invited Oral Presentation. University of Maryland, Joint Institute for Food Safety and Applied Nutrition, Advisory Council Meeting. College Park, MD. March 16, 2010.

6. **Sapkota AR.** Animal agriculture and antimicrobial resistance: do organic practices make a difference? Invited Oral Presentation. University of the District of Columbia. Washington, D.C., April 13, 2010.
7. **Sapkota AR.** Impacts of good agricultural practices (GAPs) on *Salmonella* contamination on Mid-Atlantic tomato farms. Invited Oral Presentation. Maryland Department of Health and Mental Hygiene. Baltimore, MD. July 28, 2010.
8. **Sapkota AR.** Concentrated animal feeding operations and antimicrobial resistance: Does adopting organic practices make a difference? Invited Oral Presentation. National Institutes of Health. Public Health Certificate Program. Bethesda, MD. November 2, 2010.
9. **Sapkota AR.** Microbial toxins. Invited Oral Presentation. National Institutes of Health. Public Health Certificate Program. Bethesda, MD. November 15, 2010.
10. **Sapkota AR.** FoodNet partnerships with the University of Maryland. Invited Oral Presentation. Maryland Department of Health and Mental Hygiene. Centers for Disease Control and Prevention Site Visit for the Maryland Emerging Infections Program. Baltimore, MD. June 23, 2011.
11. **Sapkota AR.** An environmental health career in academia. Invited Oral Presentation. Johns Hopkins Bloomberg School of Public Health, Environmental Health Sciences Alumni Panel. Baltimore MD. October 24, 2011.
12. **Sapkota AR.** Concentrated animal feeding operations and antimicrobial resistance: Does “going organic” make a difference? Invited Speaker. University of Maryland, School of Medicine, Department of Epidemiology and Public Health. Epidemiology and Public Health Seminar Series. Baltimore, MD. December 1, 2011.
13. **Sapkota AR.** Occurrence and antibiotic resistance of *Salmonella* and *Enterococcus* recovered from Mid-Atlantic tomato farms. State of Maryland, Infectious Disease Annual Update, 2012. Invited Speaker. Clarksville, MD. May 9, 2012.
14. **Sapkota AR.** Reclaimed water: A “safe” alternative freshwater resource or a potential source of antibiotic-resistant bacteria? Invited Speaker. University of Maryland, School of Medicine, Institute for Genome Sciences. Baltimore, MD. March 11, 2015.
15. **Sapkota AR.** CONSERVE: A Center of Excellence at the Nexus of Sustainable Water Reuse, Food and Health. Invited Speaker. University System of Maryland, Council on the Environment, Brown Bag Series. College Park, MD. December 7, 2015.
16. **Sapkota AR.** Nontraditional irrigation water for food crops in a changing climate: Is reclaimed water a safe bet? Invited Speaker. US Environmental Protection Agency, Office of Water, Climate Change Speaker Series. Washington, D.C. July 19, 2016.
17. **Sapkota AR.** CONSERVE: A Center of Excellence at the Nexus of Sustainable Water Reuse, Food & Health. Invited Speaker. Mid-Atlantic Microbiome Meet-up. University of Maryland, College Park. College Park, MD. November 2, 2016.
18. **Sapkota AR,** and Rosenberg Goldstein R. Conserving groundwater through nontraditional irrigation water: Assessing farmers needs and water quality. Invited Speakers. Maryland Groundwater Symposium, Baltimore, MD, September 28, 2017.

19. **Sapkota AR.** CONSERVE: A Center of Excellence at the Nexus of Sustainable Water Reuse, Food & Health. Invited Speaker. Joint Institute for Food Safety and Applied Nutrition, Advisory Council Meeting, Greenbelt, MD, November 2, 2017.
20. **Sapkota AR.** CONSERVE: A Center of Excellence at the Nexus of Sustainable Water Reuse, Food & Health. Invited Speaker. Maryland Department of the Environment, Baltimore, MD, December 5, 2017.
21. Rosenberg Goldstein R, and **Sapkota AR.** Nontraditional irrigation water for produce: Assessing farmer's needs and water quality. Invited Speakers. 2018 Future Harvest CASA Conference, College Park, MD, January 11, 2018.
22. **Sapkota AR.** Water Reuse, Crop Irrigation, and Public Health: Moving the Science Forward to Achieve Safe and Sustainable Water Reuse in a Changing Climate. Invited Speaker. 2nd 1890 ARD and USDA-ARS Food Safety Symposium, Beltsville, MD, April 25, 2018.
23. **Sapkota AR.** Recycled Water, Food Crop Irrigation, and Public Health: Moving the Science Forward to Achieve Safe and Sustainable Water Reuse in a Changing Climate. Invited Speaker. University of Maryland, College of Agriculture and Natural Resources Conference, Global Challenges: Building Healthy Food Systems, College Park, MD, October 4, 2018.
24. **Sapkota AR.** Recycled Water, Food Crop Irrigation, and Public Health: Moving the Science Forward to Achieve Safe and Sustainable Water Reuse in a Changing Climate. Invited Speaker. University of Maryland Eastern Shore, School of Agriculture and Natural Sciences Seminar Series, Princess Anne, MD, November 29, 2018.
25. **Sapkota AR.** CONSERVE: Achievements to date and future directions. Invited Speaker. Maryland Department of the Environment, Baltimore, MD, December 18, 2018.
26. **Sapkota AR.** Recycled Water, Food Crop Irrigation, and Public Health: Moving the Science Forward to Achieve Safe and Sustainable Water Reuse in a Changing Climate. Invited Speaker. Johns Hopkins Bloomberg School of Public Health, Department of Environmental Health and Engineering, Grand Rounds, Baltimore, MD, April 12, 2019.
27. **Sapkota AR.** Recycled Water, Food Crop Irrigation, and Public Health: Exploring Sequencing Approaches to Advance Understanding of the Microbiological Risks of Water Reuse. Invited Speaker. University of Maryland Bioscience Day, November 12, 2019.
28. **Sapkota AR.** Recycled Water, Food Crop Irrigation, and Public Health: Moving the Science Forward to Achieve Sustainable Water Reuse in a Changing Climate. Invited Speaker. Maryland Department of Health, January 31, 2020.

Refereed Conference Proceedings (Chapin is maiden name; †denotes senior author; #denotes advised undergraduate students; *denotes advised graduate students; **denotes advised post-docs)

1. **Chapin AR,** Boulind C, Naman P, Sircar K, Yee S, Yu C. Actual and perceived health risks associated with a former munitions plant; Bridgeport, CT. Roundtable Presentation, American Public Health Association, Annual Meeting, Washington, D.C., November, 1998.
2. **Chapin AR,** Boulind C, Moore A. Controlling odors and gases emitted from industrial swine facilities. Oral Presentation, American Public Health Association, Annual Meeting, Chicago, IL, November, 1999.

3. **Chapin AR†**, Venezia R. Using GIS to explore the relationship between socioeconomic factors and asthma mortality in Maryland. Poster Presentation, American Public Health Association, Annual Meeting, Boston, MA, November 2000.
4. **Chapin AR**, Carpenter CM, Dudley WC, Gibson LG, Bourgeois AL, Schwab KJ†. Rapid molecular diagnostic techniques for determining the role of Norovirus in traveler's diarrhea occurring among U.S. visitors to Mexico and Guatemala. Poster Presentation, American Society for Microbiology, 103rd General Meeting, Washington, D.C., May 2003.
5. **Chapin AR**, Geer L, Lee E, Gibson KE, Rule AM, Secrest C, Buckley TJ, Schwab KJ†. Assessing the impact of a swine concentrated animal feeding operation on the air and water quality of a rural community. Poster Presentation, International Society for Exposure Analysis, 13th Annual Conference, Stresa, Italy, September, 2003.
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13. Sweet S*, Rosenberg R*, Kinney EL*, Otivhia E, Ojo MT, Ayepola Y, Olajuyigbe OO, Coker ME, Ojo KK, **Sapkota AR†**. Self-prescribed use of antimicrobials for menstrual symptoms among Nigerian university students. Poster Presentation, American Public Health Association Annual Meeting, San Diego, California, October 2008.
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29. Jiang CS, **Sapkota AR**, Blythe D, Sapkota A†. Increased frequency of unusually hot days and foodborne illness in Maryland. Poster Presentation, Environment and Health—Bridging South, North, East and West, Conference of ISEE, ISES and ISIAQ, Basel, Switzerland 19 – 23 August 2013.
30. Mongodin EF, Claye E*, Kulkarni P*, Maddox C, Fraser CM, Clark PI, **Sapkota AR†**. Exploring tobacco microbial constituents and the oral microbiome of tobacco users. Poster Presentation, Tobacco Regulatory Science Program Meeting, National Institutes of Health, Bethesda, MD, April 2014.
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33. Mongodin EF, Smyth E**, Chattopadyay S, Hittle L, Claye E*, Kulkarni P*, **Sapkota AR†**. Characterization of the bacterial microbiota associated with little cigars. Poster Presentation, Tobacco Centers of Regulatory Science (TCORS) In-Person Meeting. National Institutes of Health, Bethesda, MD, October 2015.
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36. Chopyk J*, Chattopadhyay S, Kulkarni P*, Smyth EM**, Hittle LE, Paulson JN, Cruz-Cano R, Pop M, Clark P, Mongolian EF, **Sapkota AR†**. Brand, mentholation status and storage conditions influence

the bacterial microbiota of cigarette tobacco. Poster Presentation. 22nd Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT). Chicago, IL. March 5, 2016.

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41. Kulkarni P*, Olson N*, Paulson JN, Pop M, Maddox C, Mongodin EF, **Sapkota AR**[†]. U.S. Wastewater and Reclaimed Water Harbor Diverse and Dynamic Bacterial Communities Throughout Treatment and Storage Processes. Poster presentation. *2016 Water and Health Conference: Where Science Meets Policy*, University of North Carolina at Chapel Hill, Chapel Hill, NC. October 10-14, 2016.
42. Kulkarni P**, Olson N*, Raspanti G**, Sapkota A, **Sapkota AR**[†]. Occurrence of Antibiotic Residues in Wastewater and Reclaimed Water in the United States. Poster presentation. *2016 Water and Health Conference: Where Science Meets Policy*, University of North Carolina at Chapel Hill, Chapel Hill, NC. October 10-14, 2016.
43. Boyle M*, Soneja S**, Quiros-Alcala L, **Sapkota AR**, Dalemarre L, Sangaramoorthy T, Wilson S, Milton D, Sapkota A[†]. Examining the association between natural gas compressor stations and residential noise in West Virginia, USA. Poster Presentation, 26th Annual Meeting of the International Society for Exposure Science (ISES). Utrecht, Netherlands. October 21, 2016.
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45. Smyth EM**, Clark PI, Mongodin EF[†], **Sapkota AR**[†]. The fungal microbiota of tobacco products and its potential public health implications. Poster Presentation. Tobacco Centers of Regulatory Science Grantee Meeting. National Institutes of Health. Bethesda, MD, November 7-8, 2016.
46. Malayil L*, Chattopadyay S, Smyth EM, Chopyk J*, Pop M, Clark PI, **Sapkota AR**[†], Mongodin EF[†]. Brand-specific alteration of the bacterial microbiota by mentholation of commercial cigarette products. Poster Presentation. Tobacco Centers of Regulatory Science Grantee Meeting. National Institutes of Health. Bethesda, MD, November 7-8, 2016.
47. Mongodin EF[†], Chopyk J*, Chattopadhyay S, Kulkarni P*, Smyth EM**, Hittle LE, Paulson JN, Pop M, Clark P, **Sapkota AR**[†]. The cigarette microbiota is influenced by brand, mentholation and storage conditions: implications for potential exposure to tobacco-specific nitrosamines and bacterial

- pathogens. Poster Presentation. 23rd Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT). Florence, Italy. March 8-11, 2017.
48. Mongodin EF[†], Smyth EM^{**}, Chattopadhyay S, Hittle LE, Claye E, Kulkarni P*, Clark P, **Sapkota AR[†]**. The little cigar microbiota is characterized by a distinct and diverse bacterial community. Poster Presentation. 23rd Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT). Florence, Italy. March 8-11, 2017.
 49. Chopyk J*, Malayil L*, Chattopadhyay S, Smyth EM^{**}, Hittle LE, Clark P, **Sapkota AR[†]**, Mongodin EF[†]. Temporal dynamics of the flavor, storage condition and microbiota triad in hookah tobacco. Poster Presentation. 23rd Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT). Florence, Italy. March 11, 2017.
 50. Malayil L*, Chattopadhyay S, Chopyk J*, Mongodin EF[†], **Sapkota AR[†]**. Exploring the bacterial microbiota associated with commercial hookah tobacco products. Poster Presentation. American Society for Microbiology, Microbe, Annual Meeting. New Orleans, LA. June 1-5, 2017.
 51. Chattopadhyay S, Smyth E^{**}, Hittle L^{**}, Mongodin EF, **Sapkota AR[†]**. Exploring the microbiota of commercially available little cigars. Poster Presentation. American Society for Microbiology, Microbe, Annual Meeting. New Orleans, LA. June 1-5, 2017.
 52. Kulkarni P^{**}, Raspanti G^{**}, Bui AQ, Bradshaw RN*, Handy ET, Kniel KE, Coppock C, Sharma M, Sapkota A, **Sapkota AR[†]**. Zero-valent iron-biosand filtration is capable of reducing antimicrobial and generic *E. coli* in unbuffered conventionally treated reclaimed water. A CONSERVE Project. Poster Presentation. 2017 International Association for Food Protection Annual Meeting. Tampa, FL. July 12, 2017.
 53. Allard S^{**}, Solaiman S*, Callahan MT, Handy E, East C, Craddock Kelbick H*, Murray R^{**}, Bui A, Haymaker J*, Foust D*, Gartley S*, Vanore A, Parveen S, Hashem F, Taabodi M, May E, Kniel K, Sharma M, Micallef S, **Sapkota AR[†]**. Generic *E. coli* levels in surface and nontraditional irrigation water in the Mid-Atlantic in relation to FSMA water quality standards: A CONSERVE study. Poster Presentation, International Association for Food Protection Annual Meeting. Tampa, FL. July 9-12, 2017.
 54. Solaiman S*, Callahan MT, Allard S^{**}, Handy E, East C, May E, Hashem F, Parveen S, Kniel K, Sharma M, **Sapkota AR**, Micallef S[†]. Assessment of indicator bacteria and *Aeromonas spp.* in surface and nontraditional irrigation water: A CONSERVE study. Poster Presentation, International Association for Food Protection Annual Meeting. Tampa, FL. July 9-12, 2017.
 55. Handy E, East C, Callahan MT, Allard S^{**}, Craddock Kelbick H*, Micallef S, Kniel K, Hashem F, Parveen S, May E, Haymaker J, **Sapkota AR**, Sharma M[†]. Prevalence of *Escherichia coli*, *Salmonella spp.*, and *Listeria monocytogenes* in nontraditional irrigation waters in the Mid-Atlantic United States: A CONSERVE project. Poster Presentation, International Association for Food Protection Annual Meeting. Tampa, FL. July 9-12, 2017.
 56. Haymaker J*, Hashem F, Parveen S, May E, Sharma M, White C, Micallef S, Taaabodi M, **Sapkota AR[†]**. Screening of non-traditional irrigation water sources for Shiga toxin-producing *Escherichia coli* in the Mid-Atlantic region of the United States: A CONSERVE study. Poster Presentation, International Association for Food Protection Annual Meeting. Tampa, FL. July 9-12, 2017.
 57. Smyth EM^{**}, Chattopadhyay S, Malayil L*, Chopyk J*, Hittle L, Clark PI, Mongodin EF, **Sapkota, AR**. A. From a Tobacco Microbiota Standpoint, Are Little Cigars Just Cigarettes? Poster presentation. Tobacco Centers of Regulatory Science Grantee Meeting, October 23-24, 2017, Bethesda, MD.

58. Chopyk J*, Nasko DJ, Chattopadhyay S, Malayil L*, Kulkarni P*, Smyth EM**, Hittle LE, Clark P, Mongodin EF, **Sapkota AR**. Agricultural freshwater pond supports diverse and dynamic bacterial and viral populations. Poster Presentation. Global Food Security. Cape Town, South Africa. December 4, 2017.
59. Smyth EM**, Chattopadhyay S, Malayil L*, Chopyk J*, Hittle L, Clark PI, Mongodin EF, **Sapkota AR**. From a Tobacco Microbiota Standpoint, Are Little Cigars Just Cigarettes? Poster presentation. 24th Annual Meeting of the Society for Research on Nicotine and Tobacco, February 21-24, 2018, Baltimore, MD.
60. Chopyk J*, Nasko DJ**, Chattopadhyay S, Malayil L*, Kulkarni P**, Smyth EM**, Hittle LE, Clark P, Mongodin EF, **Sapkota AR**. Bacterial and viral interactions within the oral cavity of tobacco-users. Poster Presentation. 24th Annual Meeting of the Society for Research on Nicotine and Tobacco, February 21-24, 2018, Baltimore, MD.
61. Chattopadhyay S, Malayil L, **Sapkota AR**, Mongodin EF. Nicotine affects the composition of tobacco bacterial communities in cigarettes. Poster Presentation. 24th Annual Meeting of the Society for Research on Nicotine and Tobacco, February 21-24, 2018, Baltimore, MD.
62. Craddock H, Jones K, Lipchin C, and **Sapkota AR**. Consumer knowledge and perceptions regarding recycled irrigation water in Maryland. Nexus 2018: Water, Food, Energy & Climate. Chapel Hill, NC. April 16 - 18, 2018.
63. Malayil L, Chattopadhyay S, Kelbick HAC, Smyth EM, Hittle L, Mongodin EM, Hashibe M, Sapkota A, **Sapkota AR**. Exploring the Impacts of Oral Microbiota on Lung Cancer Risk in Nepal. Poster and Oral Presentation. American Society of Microbiology, ASM Microbe, Atlanta, GA, June 7-11, 2018.
64. Allard S, Callahan MT, Bui A, Ferelli A, Chopyk J, Micallef S, **Sapkota AR**. Creek to Table: Investigating the movement of fecal indicators, bacterial pathogens, and total bacterial communities through creek water irrigation of kale and radishes. Submitted for Oral Presentation. International Association for Food Protection (IAFP). Salt Lake City, UT. July 8-11, 2018.
65. Solaiman S, Callahan MT, Allard S, Handy E, East C, Kulkarni P, Murray R, Bui A, Haymaker J, Gartley S, May E, Hashem F, Parveen S, Kniel K, Sharma M, **Sapkota AR**, Micallef SA. Prevalence of Fecal Indicator Bacteria in Surface and Recycled Water: A Conserve Study. Poster presentation. International Association for Food Protection (IAFP) Annual Meeting, July 2018.
66. Solaiman S, Callahan MT, Sharma M, **Sapkota AR**, Micallef SA. Pathogenicity of *Aeromonas* spp. Isolated from Surface and Recycled Water and Transfer Potential to Lettuce: A Conserve Study. Poster presentation. International Association for Food Protection (IAFP) Annual Meeting, July 2018.
67. Shani Craighead, Brienna Anderson, Adam Vanore, Samantha Gartley, Walter Betancourt, Charles Gerba, Derek Foust, Rico Duncan, Chanelle White, Eric May, Salina Parveen, Fawzy Hashem, Sarah Allard, Mary Theresa Callahan, Shirley A. Micallef, **Amy Sapkota**, Kalmia Kniel. A Comparison of the Prevalence of Protozoan Parasites in Potential Alternative Sources of Agricultural Water. Poster presentation. International Association for Food Protection (IAFP) Annual Meeting, July 2018.
68. Anthony Bui, Sarah Allard, Sultana Solaiman, Mary Theresa Callahan, Hillary Craddock, Rianna Murray, Joseph Haymaker, Derek Foust, Rico Duncan, Maryam Taabodi, Samantha Gartley, Adam Vanore, Eric May, Fawzy Hashem, Salina Parveen, Kalmia Kniel, Manan Sharma, Eric Handy, Cheryl East, **Amy Sapkota**. Prevalence of Generic *Escherichia coli* in Mid-Atlantic Surface and Recycled Irrigation Water Sources and Comparison to Food Safety Modernization Act Water Quality Standards: A Conserve Study. Poster presentation. International Association for Food Protection (IAFP) Annual Meeting, July 2018.

69. Brienna Anderson, Shani Craighead, Sarah Allard, Suraj Panthi, Adam Vanore, Samantha Gartley, Joseph Haymaker, Derek Foust, Rico Duncan, Chanelle White, Mary Theresa Callahan, Rianna Murray, Fawzy Hashem, Salina Parveen, Eric May, **Amy Sapkota**, Shirley A. Micallef, Manan Sharma. Presence of Viral, Bacterial, and Chemical Indicators in Recycled, Surface, and Processing Water Used for Crop Irrigation. Poster presentation. International Association for Food Protection (IAFP) Annual Meeting, July 2018.
70. Eric Handy, Cheryl East, Prachi Kulkarni, Rhodel Bradshaw, Mary Theresa Callahan, Sarah Allard, Shirley A. Micallef, Shani Craighead, Brienna Anderson, Adam Vanore, Samantha Gartley, Kalmia Kniel, Joseph Haymaker, Fawzy Hashem, Salina Parveen, Eric May, **Amy Sapkota**, Manan Sharma. Prevalence of *Salmonella* spp., *Listeria monocytogenes*, and *Escherichia coli* in Irrigation Water Sources in the Mid-Atlantic United States: A Conserve Project —Poster presentation. International Association for Food Protection (IAFP) Annual Meeting, July 2018.
71. Chanelle White, Fawzy Hashem, Salina Parveen, Eric May, Joseph Haymaker, Eric Handy, Cheryl East, Sarah Allard, Shirley A. Micallef, Manan Sharma, Kalmia Kniel, **Amy Sapkota**. Occurrence of *Salmonella* and *Listeria monocytogenes* in Alternative Irrigation Water Sources on the Eastern Shore of Maryland: A Conserve Study. Poster presentation. International Association for Food Protection (IAFP) Annual Meeting, July 2018.
72. E. T. Handy, C. L. East, M. Callahan, S. Solaiman, S. Micallef, R. Murray, A. Bui, S. Allard, **A. R. Sapkota**, S. Gartley, S. Craighead, B. Anderson, A. Vanore, K. E. Kniel, J. Haymaker, C. White, S. Parveen, L. Goodridge, E. B. May, F. Hashem, A. Colvecchio, M. Sharma. Phylogenetic Diversity of *Escherichia coli* Isolated from Mid-Atlantic Irrigation Water Sources: A Conserve Project. Poster presentation. ASM Microbe Annual Meeting, June 2018.
73. S. Craighead, B. Anderson, A. Vanore, S. Gartley, W. Betancourt, C. Gerba, J. Haymaker, C. White, D. Foust, R. Duncan, E. May, S. Parveen, F. Hashem, S. Allard, M. Callahan, S. Micallef, **A. Sapkota**, K. Kniel. The Prevalence of Human Enteric Viruses and Protozoa in Non-Traditional Agricultural Water. Poster presentation. ASM Microbe Annual Meeting, June 2018.
74. Murray R*, Cruz-Cano R, Nasko D, Wilson S, Sapkota A. Association between Private Drinking Water Wells and the Incidence of Campylobacteriosis in Maryland: An Ecological Analysis Using Data from the Foodborne Diseases Active Surveillance Network (FoodNet). International Society of Exposure Science (ISES) & International Society for Environmental Epidemiology (ISEE) Joint Annual Meeting, Ottawa, Canada, August 2018.
75. Malayil L, Chattopadhyay S, Smyth EM, Chopyk J, Hittle L, Mongodin EF, Clark PI, **Sapkota AR**. Poster Presentation. Distinct oral bacterial communities observed between tobacco users and non-users: a longitudinal oral microbiome study. International Symposium for Microbial Ecology, ISME2017, Leipzig, Germany, August 12-17, 2018.
76. Chopyk J, Nasko DJ, Allard SM, Bui A, Treangen TJ, Pop M, Mongodin EF, **Sapkota AR**. Environmental and temporal heterogeneity influence microbial community structure and phage-host relationships in surface and reclaimed waters. Poster Presentation. 17th International Symposium on Microbial Ecology. Leipzig, Germany. August 12-17, 2018.
77. Craddock HA, Chattopadhyay S, Rjoub Y, Rosen D, Greif J, Lipchin C, Mongodin E, **Sapkota AR**. Microbiological Quality of Treated Household Greywater, Palestinian Territories. Oral presentation. UNC Water Microbiology Conference, Chapel Hill, NC. May 14-16, 2019.
78. Malayil L, Ramachandran P, Chattopadhyay S, Cagle R, Hittle L, Ottesen A, Mongodin EF, **Sapkota AR**. Enumerating metabolically active bacteria in reclaimed water and pond water used for

agricultural irrigation in Mid-Atlantic, United States. Poster and Oral Presentation. American Society of Microbiology, ASM Microbe, San Francisco, CA Jun 20-24, 2019.

79. Chattopadhyay S, Malayil L, Hittle LE, Mongodin EF, **Sapkota AR**. Source tracking microbial communities from rooftop harvested rainwater to irrigated soil and produce. Oral presentation. UNC Water & Health Conference, Chapel Hill, NC. Oct 7-11, 2019.
80. Malayil L, Chattopadhyay S, Hittle LE, Mongodin EF, **Sapkota AR**. Enumerating viable-but-non-culturable *Vibrio* spp. in irrigation water sources in the Chesapeake Bay watershed: A coupled labeling and sequencing approach that can be applied to bolster resilience in agricultural communities. Oral presentation. UNC Water & Health Conference, Chapel Hill, NC. Oct 7-11, 2019.
81. Murray R, Cruz-Cano R, Nasko, D, Blythe D, Boyle M, Ryan P, Wilson S, **Sapkota AR**. Prevalence of Private Drinking Water Wells Impacts Salmonellosis Incidence in Maryland, USA: An Ecological Analysis Using FoodNet Data (2007-2016). Oral presentation. UNC Water & Health Conference, Chapel Hill, NC. Oct 7-11, 2019.

Unrefereed Conference Proceedings (Chapin is maiden name; †denotes senior author; #denotes advised undergraduate students; *denotes advised graduate students; **denotes advised post-docs)

1. **Sapkota AR†**, Ojo KK, Roberts MC, Schwab KJ. Prevalence of macrolide, lincosamide, streptogramin and tetracycline resistance genes in airborne gram-positive bacteria recovered from a concentrated swine feeding operation. Poster presentation. College Research Interaction Day. University of Maryland School of Public Health. 2007.
2. Kinney EL*, Kim A#, Joseph SW, Hulet M, McDermott P, **Sapkota AR†**. Isolation identification and antimicrobial susceptibility of *Enterococcus* spp. from conventional poultry farms transitioning to organic farming practices. Poster Presentation. Graduate Research Interaction Day. University of Maryland School of Public Health. September 2009.
3. **Sapkota AR†**, Berger S, Vogel, TM. Human pathogens abundant in the bacterial metagenome of cigarettes. Poster Presentation. Graduate Research Interaction Day. University of Maryland School of Public Health. September 2009.
4. Rosenberg Goldstein RE*, Micallef SA**, George A#, Sapkota A, Gibbs SG, Joseph SW, **Sapkota AR†**. Irrigation workers' exposures to antimicrobial-resistant bacteria and antimicrobials present in reclaimed wastewater. Poster Presentation. University of Maryland Bioscience & Technology Review Day. College Park, MD. November 2009.
5. **Sapkota AR†**, Berger S, Vogel, TM. Human pathogens abundant in the bacterial metagenome of cigarettes. Poster Presentation. Crosstalk: Across cells, across campuses. University of Maryland College Park and University of Maryland School of Medicine. College Park, MD. January 2010.
6. Rosenberg Goldstein RE*, Micallef SA**, George A#, Sapkota A, Gibbs SG, Joseph SW, **Sapkota AR†**. Antibiotic-resistant bacteria in wastewater and resulting occupational exposures. Oral presentation by RE Rosenberg Goldstein. The Clark School of Engineering Sustainability Workshop. University of Maryland College Park. College Park, MD. April 2010.
7. Rosenberg Goldstein RE*, Micallef SA**, George A#, Sapkota A, Gibbs SG, Joseph SW, **Sapkota AR†**. Survival of methicillin-resistant *Staphylococcus aureus* in secondary treated wastewater. Oral presentation by RE Rosenberg Goldstein. Graduate Research Interaction Day. University of Maryland School of Public Health. College Park, MD. April 2011.

8. Lilly A*, **Sapkota AR**, Mudd C, Ferguson S, Shelton D, Ingram DT, and Sharma M†. Persistence of somatic and f-specific coliphages, potential indicators of fecal contamination, on spinach foliar tissue. Poster Presentation. Graduate Research Interaction Day. University of Maryland School of Public Health. College Park, MD. April 2011.
9. Lilly A*, **Sapkota AR**, Mudd C, Ferguson S, Shelton D, Ingram DT, and Sharma M†. Persistence of somatic and f-specific coliphages, potential indicators of fecal contamination, on spinach foliar tissue. Poster Presentation. U.S. Department of Agriculture, Beltsville Agricultural Research Center Poster Day. Beltsville, MD. April 2011.
10. Rosenberg Goldstein RE*, Micallef SA**, George A #, Sapkota A, Gibbs SG, Joseph SW, **Sapkota AR†**. Survival of Methicillin-resistant *Staphylococcus aureus* in secondary treated wastewater. Poster Presentation. University of Maryland Bioscience & Technology Review Day. College Park, MD. November 2011.
11. Rosenberg Goldstein RE*, Aspinwall K, Pee D, Maring L, **Sapkota AR†**. Analysis of Private Well Water Quality and Well Owner Education Program in Maryland: A Pilot Project. Poster Presentation. School of Public Health Research Interaction Day. October 2012.
12. Rosenberg Goldstein RE*, Aspinwall K, Pee D, Maring L, **Sapkota AR†**. Analysis of Private Well Water Quality and Well Owner Education Program in Maryland: A Pilot Project. Poster Presentation. University of Maryland Bioscience & Technology Review Day. College Park, MD. November 2012.
13. Pasturel BZ*, Cruz-Cano R, Rosenberg Goldstein RE*, Palmer A, Blythe D, Ryan P, Hogan B, Jung C, Joseph SW, Wang MQ, Ting Lee ML, Puett R and **Sapkota AR†**. Socioeconomic and environmental disparities in the risk of campylobacteriosis in Maryland. Poster presentation. Public Health Research @ Maryland. College Park, MD. April 2013.
14. Manchisi KK, Aspinwall K, Maring EF, Rosenberg Goldstein RE*, **Sapkota AR**, Pee D, McCoy T. Needs assessment survey of a private well water quality and well owner education program in Maryland: Initial analysis and findings. Poster presentation. Public Health Research @ Maryland. College Park, MD. April 2013.
15. Kulkarni P*, Claye E, Rosenberg Goldstein RE*, Gibbs SG, Pop M, Cummings M, Maddox C, Mongodin EF, **Sapkota AR†**. Evaluating the bacterial microbiota of reclaimed water using next generation sequencing. Poster presentation. Public Health Research @ Maryland. College Park, MD. April 2014.
16. Smyth EM**, Reid M*, Chattopadhyay S, Kulkarni P*, Babik K*, Hittle L, Paulson J*, Perlmutter R, Blythe D, Pop M, Mongodin EF, **Sapkota AR†**. Microbial diversity of stool samples from patients diagnosed with *Clostridium difficile* infection. Poster Presentation. Public Health Research @ Maryland. College Park, MD. April 2015.
17. Murray R, Pee D, Rosenberg Goldstein R*, Claye E, Aspinwall K, **Sapkota AR†**. Well water quality in Maryland: Results of a pilot study to analyze private drinking water wells and educate homeowners. Poster Presentation. Public Health Research @ Maryland. College Park, MD. April 2015.
18. Soneja S**, Jiang C, Mitchell C, Blythe D, **Sapkota AR†**, Sapkota A†. Does the frequency of extreme weather events impact campylobacteriosis risk? Poster Presentation. Public Health Research @ Maryland. College Park, MD. April 2015.
19. Jiang C, Shaw KS**, Romeo C*, Blythe D, Mitchell C, Murtugudde R, **Sapkota AR†**, Sapkota A†. Climate change, extreme events and salmonellosis: Are coastal areas truly vulnerable? Public Health Research @ Maryland. College Park, MD. April 2015.

20. Soneja S**, Jiang C, Blythe D, Mitchell C, **Sapkota AR**, Sapkota A. Does the frequency of extreme weather events impact campylobacteriosis risk? Poster Presentation, University of Maryland, Public Health Research Symposium on The Changing Climate and Health. College Park, Maryland. April 8, 2015.
21. Craddock HA*, Cruz-Cano R, Jiang C, Blythe D, Ryan P, **Sapkota AR**†. Agricultural and socioeconomic factors influence rates of *Shigella* infection: Foodborne Diseases Active Surveillance Network (FoodNet), 2004-2010. Poster Presentation. University of Maryland Bioscience Day. College Park, MD. November 19, 2015.
22. Kulkarni P*, Claye E, Rosenberg Goldstein RE**, Gibbs SG, Pop M, Cummings M, Maddox C, Mongodin EF, **Sapkota AR**†. Evaluating the bacterial microbiota of reclaimed water using next generation sequencing. Poster presentation. University of Maryland Bioscience Day. College Park, MD. November 19, 2015.
23. Chopyk J*, Chattopadhyay S, Kulkarni P*, Claye E, Babik KR*, Smyth EM**, Hittle LE, Paulson JN, Cruz-Cano R, Pop M, Clark P, Mongolian EF, **Sapkota AR**†. From Pre-harvest to Puff: Bacterial community composition differs between mentholated and non-mentholated cigarette tobacco. Poster Presentation. University of Maryland Bioscience Day. College Park, MD. November 19, 2015.
24. Craddock HA*, Cruz-Cano R, Jiang C, Blythe D, Ryan P, **Sapkota AR**†. Agricultural and socioeconomic factors influence rates of Shigella infection: Foodborne Diseases Active Surveillance Network (FoodNet), 2004-2010. Poster Presentation. University of Maryland Public Health Research Day. College Park, MD. April 5, 2016.
25. Chopyk J*, Chattopadhyay S, Kulkarni P*, Smyth EM**, Hittle LE, Paulson JN, Cruz-Cano R, Pop M, Clark P, Mongolian EF, **Sapkota AR**†. Brand, mentholation status and storage conditions influence the bacterial microbiota of cigarette tobacco. Poster Presentation. Public Health Research Maryland. College Park, MD. April 5, 2016.
26. Craddock HA*, Cruz-Cano R, Jiang C, Blythe D, Ryan P, **Sapkota AR**†. Agricultural and socioeconomic factors influence rates of Shigella infection: Foodborne Diseases Active Surveillance Network (FoodNet), 2004-2010. Poster Presentation. University of Maryland Graduate Research Appreciation Day. College Park, MD. April 6, 2016.
27. Smyth EM**, Chattopadhyay S, Hittle L, Claye E, Kulkarni P*, Mongodin EF, **Sapkota AR**†. The bacterial microbiota of little cigar tobacco and wrapper. Poster Presentation. University of Maryland Bioscience Day. College Park, Maryland. October 25, 2016.
28. Malayil L*, Chattopadyay S, Smyth EM**, Chopyk J*, Pop M, Clark PI, **Sapkota AR**, Mongodin EF. Brand-specific alteration of the bacterial microbiota by mentholation of commercial cigarette products. Poster Presentation. University of Maryland Bioscience Day. College Park, Maryland. October 25, 2016.
29. Chopyk J*, Chattopadhyay S, Kulkarni P*, Smyth EM**, Hittle LE, Paulson JN, Pop M, Clark PI, Mongolian EF, **Sapkota AR**†. Influence of brand, mentholation and storage conditions on the bacterial microbiota of cigarette tobacco. Poster Presentation. University of Maryland Bioscience Day. College Park, Maryland. October 25, 2016.
30. Kulkarni P*, Olson N*, Paulson JN, Pop M, Maddox C, Mongodin EF†, **Sapkota AR**†. U.S. Wastewater and Reclaimed Water Harbor Diverse and Dynamic Bacterial Communities Throughout Treatment and Storage Processes. Poster presentation. University of Maryland Bioscience Day. College Park, Maryland. October 25, 2016.

31. Kulkarni P*, Olson N*, Raspanti G**, Sapkota A, **Sapkota AR**†. Occurrence of antibiotic residues in wastewater and reclaimed water in the United States. Poster presentation. University of Maryland Bioscience Day. College Park, Maryland. October 25, 2016.
32. Cagle R#, Williams R#, Panse M#, Rundhawa S#, Bui A, Chopyk J*, Allard S**, Mongodin EF, **Sapkota AR**†. Stayin' alive: Culturable *Staphylococcus*, *Pseudomonas*, and *Enterococcus* are likely present in tobacco products. Poster Presentation. University of Maryland Public Health Research Day. College Park, MD. April 6, 2017.
33. Malayil L*, Chattopadhyay S, Smyth EM**, Chopyk J*, Pop M, Clark PI, **Sapkota AR**†, Mongodin EF†. Brand-specific alteration of the bacterial microbiota by mentholation of commercial cigarette products. Poster Presentation. University of Maryland Public Health Research Day. College Park, MD. April 6, 2017.
34. Cagle R#, Williams R#, Panse M#, Rundhawa S#, Bui A, Chopyk J*, Allard S**, Mongodin EF, **Sapkota AR**†. Stayin' alive: Culturable *Staphylococcus*, *Pseudomonas*, and *Enterococcus* are likely present in tobacco products. Poster Presentation. University of Maryland Undergraduate Research Day. College Park, MD. April 26, 2017.
35. Kulkarni P*, Raspanti G**, Bui AQ, Bradshaw RN*, Handy ET, Kniel KE, Coppock C, Sharma M, Sapkota A, **Sapkota AR**†. Zero-valent iron-biosand filtration is capable of reducing antimicrobial and generic *E. coli* in unbuffered conventionally treated reclaimed water. A CONSERVE Project. Poster Presentation. 28th Annual Beltsville Poster Day. Beltsville, MD. April 26, 2017.
36. Chopyk J*, Nasko DJ, Malayil L*, Chattopadhyay S, Kulkarni P*, Smyth EM**, Hittle LE, Clark P, Mongolian EF, **Sapkota AR**†. Bacterial and viral interactions within the oral cavity of tobacco-users. Oral Presentation. Mid-Atlantic Microbiome Meet-up. College Park, Maryland. May 8, 2017.
37. Chopyk J*, Nasko DJ, Malayil L*, Chattopadhyay S, Kulkarni P*, Smyth EM**, Hittle LE, Clark P, Mongolian EF, **Sapkota AR**†. A tale of two microbes: bacterial and viral interactions within the oral cavity of tobacco-users. COMBINE Symposium. College Park, Maryland. August 2017.
38. Cagle R, Panse M, Rundhawa S, Williams R, Bui A, Chopyk J, Allard S, Mongodin EF, **Sapkota AR**. Stayin' alive: Culturable *Staphylococcus*, *Pseudomonas*, and *Enterococcus* are likely present in tobacco products. Poster Presentation, University of Maryland Bioscience Day. College Park, MD. November 15, 2017.
39. Chopyk J*, Nasko DJ, Chattopadhyay S, Malayil L, Kulkarni P, Smyth EM, Hittle LE, Clark P, Mongodin EF, **Sapkota AR**. Bacterial and viral interactions within the oral cavity of tobacco-users. Poster Presentation. Bioscience Day. College Park, Maryland. November 16, 2017
40. Chopyk J*, Nasko DJ, Chattopadhyay S, Malayil L, Kulkarni P, Smyth EM, Hittle LE, Clark P, Mongodin EF, **Sapkota AR**. Agricultural freshwater pond supports diverse and dynamic bacterial and viral populations. Poster Presentation. Mid-Atlantic Microbiome Meet-up. College Park, Maryland. January 10, 2017.
41. Murray R, Wilson S, **Sapkota AR**. Association between Private Drinking Water Wells and the Incidence of Campylobacteriosis in Maryland: An Ecological Analysis Using a Decade of Data from the Foodborne Diseases Active Surveillance Network (FoodNet). Public Health Research at Maryland Day. College Park, MD. April 2018.

42. Chopyk J, Allard SM, Nasko DJ, Bui A, Mongodin EF, **Sapkota AR**. Agricultural freshwater pond supports diverse and dynamic bacterial and viral populations. Poster Presentation. University of Maryland Public Health Research Day. College Park, MD. April 3, 2018.
43. Craddock H, Rjoub Y, Rosen D, Grief J, Lipchin C, and **Sapkota AR**. Assessing the Safety and Efficacy of Agricultural Irrigation Water Produced by Small-Scale Greywater Treatment Systems in the West Bank, Palestine. Public Health Research Day at Maryland. College Park, MD. April 3, 2018.
44. Craddock H, Rjoub Y, Rosen D, Grief J, Lipchin C, and **Sapkota AR**. 2018. Assessing the Safety and Efficacy of Agricultural Irrigation Water Produced by Small-Scale Greywater Treatment Systems in the West Bank, Palestine. Graduate Research Appreciation Day. College Park, MD. April 4, 2018.
45. Chopyk J, Nasko DJ, Allard SM, Bui A, **Sapkota AR**. Exploring phage signals in nontraditional sources of water for irrigation. Oral Presentation. CHIB Workshop and COMBINE Symposium for Network Medicine. College Park, MD. May 17 2018.
46. Chopyk J, Nasko DJ, Allard SM, Bui A, **Sapkota AR**. Environmental and temporal heterogeneity influence microbial community structure and phage-host relationships in surface and reclaimed waters. Poster Presentation. CHIB Workshop and COMBINE Symposium for Network Medicine. College Park, MD. May 17. 2018.
47. Craddock H, Jones K, Lipchin C, and **Sapkota AR**. Consumer knowledge and perceptions regarding recycled irrigation water in Southern Israel. Global Water Reuse, Food, and Health Workshop. College Park, MD. October 8-9 2018.

Grants and Contracts

Pending

1/20-1/25 *Ensuring Food Security and Climate Resilience through a Food-Energy-Water Solution*
 Sponsor: MacArthur Foundation, *100&Change Competition*
 Role: **Principal Investigator**
 Total costs: **\$100,000,000**

Active

9/20-9/25 *Improving Agricultural Water Use and Nutrient Management to Sustain Food and Energy Crops Production in the Corn Belt (Award #2020-68012-31674)*
 Sponsor: U.S. Department of Agriculture, National Institute of Food and Agriculture
 Role: **Co-Project Director (Co-Principal Investigator)**
 Total Costs: **\$10,000,000**

9/18-9/23 *UMD Global STEWARDS (STEM Training at the Nexus of Energy, **W**ater Reuse, and Food Systems) (Award #1828910)*
 Sponsor: National Science Foundation, National Research Traineeship Program (NRT)
 Role: **Principal Investigator**
 Total costs: **\$3,000,000**

3/16-3/21 *CONSERVE: A Center of Excellence at the Nexus of Sustainable Water Reuse, Food and Health (Award #2016-68007-25064)*
 Sponsor: U.S. Department of Agriculture, National Institute of Food and Agriculture

Role: Center Project Director (Principal Investigator)

Co-Investigators: University of Maryland College Park: Shirley Micallef, Amir Sapkota, Masoud Negahban-Azar, Mihai Pop, Paul Goeringer, Rachel Rosenberg Goldstein; University of Maryland Eastern Shore: Fawzy Hashem; University of Maryland Baltimore: Emmanuel F. Mongodin, Michael Pappas, Robert Percival; USDA Agricultural Research Service: Manan Sharma; University of Delaware: Kalmia Kniel, Kent Messer; University of Arizona: Charles Gerba, Sadhana Ravishankar; New Mexico State University: Jeanne Gleason, Barbara Chamberlin; Arava Institute for Environmental Studies: Clive Lipchin; CosmosID: Rita Colwell.

Total Center costs: **\$10,000,000**

Completed

- 1/18-1/19 *Expanding water reuse for food production in off-grid communities*
Sponsor: University of Maryland, Vice President of Research
Role: **Principal Investigator**; Total costs: **\$50,000**
- 6/18-10/18 *Global Water Reuse, Food and Health Workshop*
Sponsor: U.S. Israel Bi-National Agricultural Research and Development Fund
Role: **Co-Principal Investigator** (With Yael Mishael, Hebrew University of Jerusalem)
Total workshop costs: **\$45,000**
- 9/13-8/18 *Rapid Response Characterization of New and Manipulated Tobacco Products (P50 Center, P50CA180523)*
Sponsor: Funded by the Food and Drug Administration and administered by the National Institutes of Health/National Cancer Institute
Total Center costs: **\$18,777,000** (Pamela Clark, Center Principal Investigator)
Role: **Co-Principal Investigator** on one R01 within the P50 Center, "Exploring tobacco microbial constituents and the oral microbiome of tobacco users" (Multiple PI Plan with Emmanuel F. Mongodin, PhD)
Total R01 costs: **\$2,700,000**
- 9/14-9/17 *Multiple projects supporting the Maryland Emerging Infections Program*
Projects: "Socioeconomic and environmental disparities in the risk of campylobacteriosis in the U.S.;" "Evaluating the influence of severe climate events on the incidence of salmonellosis in the U.S."
Sponsor: Maryland Department of Health and Mental Hygiene (DHMH), Emerging Infections Program
Role: **Principal Investigator**; Total costs: **\$500,000**
- 1/17-6/17 Fulbright Senior Researcher Scholarship, Nepal
Influence of local tobacco use on the oral microbiota and lung cancer risk in Nepal
Sponsor: U.S. Department of State
Role: PI; Total Stipend: **\$16,500**
- 9/13-9/14 *Exploring 16S polymorphisms and in-home coal combustion exposures*
Sponsor: National Institutes of Health, National Cancer Institute (Sole Source Contract Renewal)
Role: **Principal Investigator**; Total costs: **\$25,000**
- 6/12-9/14 *Multiple projects supporting the Maryland Emerging Infections Program*
Projects: "Socioeconomic and environmental disparities in the risk of campylobacteriosis in Maryland;" "Evaluating the influence of severe climate events on the incidence of salmonellosis in Maryland"

- Sponsor: Maryland Department of Health and Mental Hygiene (DHMH), Emerging Infections Program
Role: **Principal Investigator**; Total costs: **\$400,680**
- 6/13-6/14 *Deep sequencing of mixed samples*
Sponsor: UMD, Center for Health Informatics and Bioimaging
Role: **Principal Investigator** (Multiple PI Plan with Mihai Pop and Michael Cummings)
Total costs: **\$150,000**
- 6/12-6/13 *Maryland Well Water Program to Achieve Testing, Education and Research (WATER)*
Sponsor: University of Maryland, National Science Foundation, ADVANCE Program for Inclusive Excellence, Interdisciplinary and Engaged Research Seed Grants 2012.
Role: **Principal Investigator**; Total costs: **\$20,000**
- 6/12-6/13 *Role of product-specific bacterial communities in tobacco-specific nitrosamine (TSNA) formation and potential pathogenicity in smokeless tobacco products*
Sponsor: Centers for Disease Control and Prevention, National Center for Env. Health
Role: **Principal Investigator**; Total costs: **\$150,000**
- 9/11-9/12 *Exploring 16S polymorphisms and in-home coal combustion exposures*
Sponsor: National Institutes of Health, National Cancer Institute
Role: **Principal Investigator**; Total costs: **\$24,307**
- 6/11-6/12 *Maryland private well water education/safe drinking water clinics*
Sponsor: University of Maryland Extension
Role: **Co-investigator**; Total costs: **\$9,840**
- 9/10-9/11 *Evaluation of F-RNA bacteriophages as potential alternative bacterial fecal indicators in environmental samples*
Sponsor: United States Department of Agriculture, Agricultural Research Service
Role: **Principal Investigator**; Total costs: **\$36,032**
- 6/09-6/12 *Multiple projects supporting the Maryland Emerging Infections Program*
Projects: "Evaluating Public Health Impacts and Cost-Effectiveness of Implementing Good Agricultural Practices (GAPs) in the Tomato Farm Environment;" "Socioeconomic and environmental disparities in the risk of campylobacteriosis in Maryland."
Sponsor: Maryland Department of Health and Mental Hygiene (DHMH), Emerging Infections Program
Role: **Principal Investigator**; Total costs: **\$280,945**
- 6/09-6/11 *Irrigation workers' exposures to antibiotic-resistant bacteria and antimicrobials from reclaimed wastewater*
Sponsor: National Institute for Occupational Safety and Health, R03 Small Grants Program, Grant # 1-R03-OH009598-01 (score = 161, 11.5%)
Role: **Principal Investigator**; Total costs: **\$150,000**
- 7/08-7/10 *Evaluating public health impacts and cost-effectiveness of implementing good agricultural practices (GAPs) in the tomato farm environment*
Sponsor: University of Maryland, Joint Institute for Food Safety and Applied Nutrition, funded by the U.S. Food and Drug Administration
Role: **Principal Investigator**; Total costs: **\$225,000**
- 9/07-9/08 *Temporal changes in antibiotic resistance of Salmonella, Campylobacter and Enterococcus as conventional poultry farms transition to organic farms*

Sponsor: Center for a Livable Future, Johns Hopkins University Bloomberg School of Public Health

Role: **Principal Investigator**; Total costs: **\$20,000**

- 7/07-7/08 *Design of a community health study of industrial food animal production of dairies in Yakima Valley, Washington*
Sponsor: Center for a Livable Future, Johns Hopkins University Bloomberg School of Public Health
Role: **Co-investigator**; Total costs: **\$78,279**
- 1/07-1/08 *Matrices of the dispersion of antibiotic resistance genes in natural environments*
Sponsor : Agence Francais de Securite Sanitaire de l'Environnement et du Travail
Role: **Co-investigator**; Total costs: **100,000 Euros**
- 4/04-4/05 *Genetic characterization of antibiotic-resistant bacterial pathogens detected in air, water and lagoon samples collected at a concentrated animal feeding operation*
Sponsor: Center for a Livable Future, Johns Hopkins University Bloomberg School of Public Health
Role: **Co-investigator**; Total costs: **\$25,000**
- 4/03-4/04 *Testing for antibiotic-resistant bacteria in environmental samples proximal to concentrated animal feeding operations (CAFOs)*
Sponsor: Center for a Livable Future, Johns Hopkins University Bloomberg School of Public Health
Role: **Co-investigator**; Total costs: **\$25,000**
- 8/02-5/03 *Characterizing exposures to airborne antibiotic-resistant bacteria among DelMarVa chicken catchers and growers*
Sponsor: National Institute for Occupational Safety and Health, Education and Research Center, Pilot Project Research Training Award, Johns Hopkins University Bloomberg School of Public Health, Grant # T42CCT310419
Role: **Co-investigator**; Total costs: **\$8,000**
- 4/02-4/03 *Assessing the impact of a swine concentrated animal feeding operation (CAFO) on the air and water quality of a Maryland community*
Sponsor: Center for a Livable Future, Johns Hopkins University Bloomberg School of Public Health
Role: **Co-investigator**; Total costs: **\$62,000**
- 9/01-9/06 *Assessing the relationship between antibiotic-resistant infections in humans and resistant microbes emitted into the environment from an industrial swine operation*
Sponsor: Howard Hughes Medical Institute Predoctoral Fellowship in Biological Sciences, Grant # 59003452
Role: **Pre-doctoral principal investigator**; Total costs: **\$185,000**
- 9/00-9/01 *Investigation of the impacts of concentrated animal feeding operations on groundwater and surface water quality*
Sponsor: Centers for Disease Control and Prevention
Role: **Principal Investigator**; Total costs: **\$160,000**

Honors and Awards

1. Phi Sigma National Honor Society, 1994-97
2. Phi Kappa Phi National Honor Society, 1995-97

3. Golden Key National Honor Society, 1995-97
4. Phi Beta Kappa, University of Maryland College Park, May 1997
5. Gamma Award, Phi Beta Kappa, University of Maryland College Park, May 1997
6. National Network for Environmental Management Studies Fellowship, US EPA, 1998
7. Outstanding Employee Performance Award, Maryland Department of Health and Mental Hygiene, 2000
8. Cornelius W. Kruse Award for Outstanding Graduate Studies, Johns Hopkins, 2002
9. Delta Omega, Alpha Chapter, Honorary Public Health Society, 2005
10. Howard Hughes Medical Institute, Pre-doctoral Fellowship in Biological Sciences, 2001-2005
11. Eric Mood New Professional Award, Yale School of Public Health, 2012
(This award recognizes the career of a Yale alumnus/a who is a promising new professional in the field of public health, and who demonstrates outstanding leadership potential and creativity in the practice of public health.)
12. Honoree, 6th Annual University-Wide Celebration of Scholarship & Research, University of Maryland College Park, May 2013
13. Honoree, 7th Annual University-Wide Celebration of Scholarship & Research, University of Maryland College Park, May 2014
14. Honoree, 8th Annual University-Wide Celebration of Scholarship & Research, University of Maryland College Park, May 2015.
15. Jerry P. Wrenn Outstanding Service Award, University of Maryland School of Public Health, May 2015.
16. Honoree, 9th Annual University-Wide Celebration of Scholarship & Research, University of Maryland College Park, May 2016.
17. Fulbright Senior Researcher Scholarship, Nepal, U.S. Department of State, January to June 2017.
18. Research and Development Award, University of Maryland School of Public Health, May 2018.
19. Honoree, 11th Annual University-Wide Celebration of Scholarship & Research, University of Maryland College Park, May 2018.
20. Exemplary Researcher Recognition, Inaugural Maryland Research Excellence Celebration, University of Maryland College Park, February 2019.
21. Leda Amick Wilson Mentoring Award, University of Maryland School of Public Health, June 2019.
22. Honoree, Maryland Research Excellence Celebration, University of Maryland College Park, February 2020.

Reviewing Activities

Manuscript Review for Peer-Reviewed Journals (listed alphabetically)

American Journal of Public Health
Canadian Journal of Microbiology
Emerging Infectious Diseases
Environmental Health Perspectives
Environmental Research
Environmental Science & Technology
International Journal of Hygiene and Environmental Health
Journal of Applied Microbiology
Journal of Environmental Quality
Journal of Water and Health
Journal of Infection in Developing Countries
Letters in Applied Microbiology
PLOS ONE

*Science of the Total Environment
Zoonoses and Public Health
Water Research*

Grant Proposal and Application Review (number reviewed)

U.S./Israel Binational Agricultural Research Development (BARD) Fund, Summer 2019,
Ad-hoc reviewer for 1 grant.

Applicant reviewer, Fulbright Commission, Nepal, Fulbright Foreign Student Program
(15), May 2017

Panel reviewer, Gulf of Mexico Research Initiative (GoMRI), Request for Proposals IV
(Consortiums), Full proposals (9), July 29, 2014

Ad-hoc reviewer, University of Maryland, National Science Foundation, ADVANCE
Program for Inclusive Excellence, Interdisciplinary and Engaged Research Seed Grants,
2013 (1)

Ad-hoc reviewer, The United States-Israel Binational Agricultural Research and
Development (BARD) Fund, 2013 (1)

Ad-hoc reviewer, National Science Foundation (NSF), Dimensions of Biodiversity
Program, 2012 (1)

Teaching

Courses taught as the primary instructor in the last five years

Spring 2012	MIEH688	Seminar: Curr. Topics in Env. Occ. Hlth.	10 Students	1 credit
	MIEH785	Internship in Public Health	3 Students	3 credits
	MIEH786	Capstone Project in Public Health	1 Student	3 credits
	MIEH898	Pre-Candidacy Research	1 Student	2 credits
	MIEH789	Independent Study	1 Student	1 credit
	BSCI379G	CBMG Dept. Research	1 Student	3 credits
Fall 2012	MIEH773	Food-, Water-, Airborne Inf. Dis.	7 Students	3 credits
	MIEH785	Internship in Public Health	1 Student	3 credits
	MIEH789	Independent Study	1 Student	3 credits
	MIEH899	Doctoral Dissertation Research	1 Student	6 credits
Spring 2013	MIEH 609	Methods in Toxicology	1 Student	3 credits
	MIEH785	Internship in Public Health	1 Student	3 credits
	MIEH786	Capstone Project in Public Health	2 Students	3 credits
	MIEH899	Doctoral Dissertation Research	1 Student	2 credits
	MIEH789	Independent Study	1 Student	1 credit
	MIEH309	Research in Environmental Health	1 Student	2 credits
Fall 2013	MIEH773	Food-, Water-, Airborne Inf. Dis.	5 Students	3 credits
	MIEH785	Internship in Public Health	1 Student	3 credits
	MIEH799	Master's Thesis Research	1 Student	3 credits
	MIEH309	Research in Environmental Health	1 Student	2 credits
	BSCI379G	CBMG Dept. Research	1 Student	3 credits

Spring 2014	MIEH609	Methods in Toxicology	1 Student	3 credits
	MIEH785	Internship in Public Health	1 Student	3 credits
	MIEH786	Capstone Project in Public Health	1 Student	3 credits
	MIEH799	Master's Thesis Research	1 Student	3 credits
	MIEH309	Research in Environmental Health	3 Students	2 credits
Fall 2014	MIEH773	Food-, Water-, Airborne Inf. Dis.	6 Students	3 credits
	MIEH785	Internship in Public Health	3 Students	3 credits
	MIEH789	Independent Study	1 Student	3 credits
	MIEH309	Research in Environmental Health	2 Students	2 credits
	BSCI379G	CBMG Dept. Research	1 Student	3 credits
Spring 2015	MIEH 799	Master's Thesis Research	1 Student	6 credits
	MIEH786	Capstone Project in Public Health	3 Students	3 credits
	MIEH309	Research in Environmental Health	1 Student	2 credits
Summer 2015	MIEH 799	Master's Thesis Research	1 Student	1 credit
	MIEH 785	Internship in Public Health	1 Student	3 credits
Fall 2015	MIEH773	Food-, Water-, Airborne Inf. Dis.	5 Students	3 credits
	MIEH 609	Methods in Toxicology	1 Student	3 credits
	MIEH309	Research in Environmental Health	2 Student	2 credits
Spring 2016	MIEH 309	Research in Environmental Health	3 Students	2 credits
	MIEH899	Doctoral Dissertation Research	1 Student	3 credits
Fall 2016	MIEH 309	Research in Environmental Health	5 Students	3 credits
	Course Waiver	To develop newly funded Center		
Spring 2017	Sabbatical	To complete Fulbright Senior Researcher Scholarship in Nepal		
Fall 2017	MIEH773	Food-, Water-, Airborne Inf. Dis.	5 Students	3 credits
	MIEH309	Research in Environmental Health	3 Students	2 credits
Spring 2019	MIEH690	Experiential Exploration of Innovations at the Food-Energy-Water Nexus	12 Students	3 credits
Spring 2019	MIEH699	Seminal Findings and Research in Progress at the Food-Energy-Water Nexus	12 Students	1 credit
Fall 2019	MIEH699	Seminal Findings and Research in Progress at the Food-Energy-Water Nexus	12 Students	1 credit
Spring 2020	MIEH690	Experiential Exploration of Innovations at the Food-Energy-Water Nexus	11 Students	3 credits
Spring 2020	MIEH699	Seminal Findings and Research in Progress at the Food-Energy-Water Nexus	11 Students	1 credit

Course or Curriculum Development

Training Program Designed and developed 3 new courses for the UMD Global STEWARDS National Science Foundation Research Traineeship (NRT) program, MIEH 690, 691 and 699

Overall	Played major roles in curriculum development for MPH and two PhD programs in Environmental Health Sciences
MIEH 773	Biological Contaminants in the Environment (Now entitled Food-, Water-, and Airborne Infectious Diseases) Role: Developed the entire course from scratch.
MIEH 720	Principles of Toxicology Role: Developed the entire course from scratch.
MIEH698A/ MIEH688	Seminar: Current Topics in Environmental and Occupational Health Role: Developed seminar course from scratch.
MIEH785	Internship in Public Health Role: Heavily revamped internship program and handbook for MPH in Env. Hlth.
MIEH786	Capstone Project in Public Health Roles: Heavily revamped capstone project program and handbook for MPH in Env. Hlth.

Guest Lectures

MIEH 600	Principles of Environmental Health (One to two guest lectures each semester)
MIEH 771	Exposure Assessment of Environmental Hazards (One guest lecture each semester)
FMSC280	Global, Child & Family Health: Getting There Via E-Communications (One guest lecture each Fall semester)
HONR268C	Honors Seminar: Public Health Perspectives: How Does the Environment affect Human Health? (One guest lecture each semester)
Exchange Program	International Exchange Program with Kyung Hee University (Korea) entitled "Engineering Technology and Public Health" (Summer Undergraduate Program) (Two guest lectures in food and waterborne disease and hands-on field and laboratory based practicums)

Mentoring and Advising

Undergraduate Research Advising

Kaitlin Ta	Summer 2019; CONSERVE Summer Internship Program
Meg Shi Xiaoxuan	Summer 2018; CONSERVE Summer Internship Program
Lydia Ingabire	Summer 2017; CONSERVE Summer Internship Program
River Williams	Fall 2016-Fall 2018; Major in Public Health Science
Mansi Panse	Fall 2016-Fall 2018; Major in Neurobiology and Physiology
Robin Cagle	Spring 2016-Spring 2018; Major in Environmental Health; <u>Currently an ORISE Fellow at the Food and Drug Administration</u>

Shamar Rundhawa	Summer 2016-Spring 2018; Major in Biological Sciences
FIRE Team	Faculty Advisor to undergraduate First-year Innovation and Research Experience (FIRE) Team, Environmental Pathogens Stream, Summer 2016 and Beyond: Sydney Britton, Michael Digles, Sylvia Ejeh, Kasey Goon, Kylie Green, Gelila Haile, Zachary Holdsman, Madeline Hoover, Eda Kirschi, Zachary Korn, Seth Lattner, Jourdan Mansfield, Erica McGovern, Jasmine Namata, Olaedo Onuh, Alec Parsons, Priti Rayamajhi, Everett Richmond, Avinaash Sandu, Rachelle Sims, Alexander Walpole, Alec Walter
Anthony Bui	January 2016-Summer 2016; Major in Neurophysiology; continued working as a laboratory technician in my lab; <u>Currently has a full scholarship to complete a PhD in Microbiology at Cornell University</u>
Daniella Portal	Fall 2015-Present; Major in Public Health Sciences with a pre-professional concentration in Medicine
Isabel Burick	Fall 2014-Fall 2015; Major in Biology with a concentration in Neurobiology and Physiology; <u>Currently in medical school</u>
Jackie Taylor	Summer 2015, UM STARS Summer Program; Undergraduate student from UC Berkeley
Rhodel Bradshaw	Summer 2014 & 2015, UM STARS Summer Program; Undergraduate student at the University of the Virgin Islands; <u>Currently an MPH student at the UMD SPH.</u>
Seong Park	Spring 2014; Major in Cell Biology and Molecular Genetics.
Arshom Foroutan	Fall 2013-Spring 2014; Major in Neurophysiology; <u>Currently in Medical School.</u>
Taylor Carter	Fall 2012-Spring 2013; Major in Cell Biology and Molecular Genetics; <u>Currently working as a lab technician at the Institute of Marine and Environmental Technology.</u>
Angeo Belen	Fall 2012-Summer 2014; Major in Cell Biology and Molecular Genetics; <u>Currently in Pharmacy School</u>
Deborah Jack	Spring 2012-Summer 2012; B.S. Cornell University; Post-Bac University of Maryland; <u>Went on to complete Medical School</u>
Victor Long	Spring 2011-Spring 2012; Major in Cell Biology and Molecular Genetics
Lara Kleinfelter	Spring 2010-Spring 2012; Major in Cell Biology and Molecular Genetics; Co-author on one published, peer-reviewed paper and one paper in revision; First author on manuscript to be submitted in Summer 2012; <u>Currently a doctoral student in Microbiology at Albert Einstein School of Medicine, Fall 2012-Present.</u>
Emma Claye	Spring 2011; Major in Cell Biology and Molecular Genetics; <u>Went on to complete a MPH degree at Yale University School of Public Health; Currently working as an epidemiologist with the New York City Health Department</u>
Nicole Schreiber	Fall 2010-Spring 2011; Major in Cell Biology and Molecular Genetics and Journalism; <u>Currently working as a Clinical Research Supervisor at Memorial Sloan Kettering Cancer Center</u>

Ariel Stoler	Spring 2010-Fall 2010; Major in Cell Biology and Molecular Genetics
Rachel Tran	Fall 2009; Major in Cell Biology and Molecular Genetics; <u>Went on to Physician Assistant school</u>
Zanetta Chang	Fall 2009; Major in Cell Biology and Molecular Genetics; <u>Went on to complete a PhD in Microbiology</u>
Ashish George	Spring 2009-Spring 2010; Major in Classics; Co-author on seven poster abstracts; Co-author on two published, peer-reviewed papers and one paper in revision; <u>Went on to complete Osteopathic Medical School; Currently a resident in Pediatrics at Women and Children's Hospital of Buffalo</u>
Norman Wang	Fall 2007-Spring 2009; Major in Cell Biology and Molecular Genetics; <u>Went on to University of Maryland School of Dentistry</u>
Andrew Kim	Fall 2007-Fall 2008: Major in Cell Biology and Molecular Genetics; Co-author on poster abstract; <u>Went on to University of Maryland Pharmacy School</u>
Gemstone Team	Summer 2007-Spring 2008; Co-mentor with Sam W. Joseph; Project titled "An Investigation of <i>Staphylococcus aureus</i> on the University of Maryland College Park Campus;" Team members included Anita Kohli, Bernadetta Puskiewicz, Kevin Chai, Yeelan Ku, Angel Chang, Bixi Zeng, Chris Johnson, Daozhong Jin, Azeem Gopalani, Jessica Baxley, Zev Karkowsky, Maximillian Chen, and Stephanie Buszczak

Graduate Research Advising

Post-doctoral

Rianna Murray	January 2019-Present
Leena Malayil	June 2019-Present
Sarah Allard	Fall 2016-Sumer 2019; Produce Safety Alliance Trainer Certification (2017); CONSERVE International Scholarship, Israel (January 2017).
Eoghan Smyth	January 2015-Spring 2018; UMD/Battelle TCORS Pilot/Development Project Program Award 2015/2016, "Fungal Constituents and Their Role in Tobacco-specific Nitrosamine and Mycotoxin Formation in Smoked and Smokeless Tobacco Products"; UMD/Battelle TCORS Pilot/Development Project Program Award 2016/2017, "Exhaled Breath Microbiome of Smokers and Non-smokers."
Kristi S. Shaw	Summer 2014-Summer 2015
Sutyajeet Soneja	Fall 2014-Fall 2016; International Society for Environmental Epidemiology Travel Award (August 2015); International Society for Exposure Science Diversity Award (October 2015); <u>Currently an AAAS Fellow at USAID</u>
Shirley A. Micallef	Fall 2008-Summer 2011; <u>Currently a tenured Associate Professor, University of Maryland College Park, Department of Plant Sciences and Landscape Architecture & Center for Food Safety Security Systems</u>

PhD Students, Major Advisor (NOTE: MIAEH did not have a PhD program until Spring 2012)

Michele Morgado Fall 2019-Present; PhD program in Environmental Health Sciences

Leena Mayalil Fall 2015-Summer 2019; PhD program in Toxicology and Environmental Health; American Society for Microbiology, Student Travel Award (May 2016); American Society for Microbiology, Student Travel Award (May 2017); Wait Family Scholarship Winner (September 2017); Raymond Sarber Award, American Society for Microbiology (January 2018); UMD School of Public Health, Dean's Fellowship (June 2018); Jacob K. Goldhaber Travel Grant (June 2018); UMD International Conference Student Support Award (June 2018); Currently a post-doctoral fellow in my group

Hillary Craddock Fall 2015-Spring 2019 (Co-advisor with Dr. Paul Turner); PhD program in Toxicology and Environmental Health; Dean's Fellowship Awardee (Fall 2015-Spring 2017); University of Maryland Graduate Research Appreciation Day, Second Place Poster Winner (April 2016); Wait Family Environmental Graduate Scholarship Winner (June 2016); International Association for Food Protection, Student Travel Scholarship Winner (July 2017); International Graduate Research Fellowship Winner (August 2017); UMD School of Public Health, Dean's Fellowship (June 2018); Anne G. Wylie Dissertation Fellowship (2018); Currently completing a Fulbright Post-doctoral Fellowship, Ben Gurion University 2019-2021

Jessica Chopyk Fall 2015-Spring 2019; PhD program in Toxicology and Environmental Health; University of Maryland Bioscience Day, First Place Poster Winner (October 2016); Awardee, University of Maryland's COMBINE (Computation and Mathematics for Biological Networks) Fellowship program, a National Science Foundation-funded Research Traineeship program (NSF: 1632976) (January 2017); Awardee, Jacob K. Goldhaber Travel Grant (February 2017); International Conference Student Support Award Winner, University of Maryland Graduate School (September 2017); International Student Support Award Winner, University of Maryland Graduate School (May 2018); UMD School of Public Health, Dean's Fellowship (June 2018); Jacob K. Goldhaber Travel Grant (June 2018); Rita Colwell Travel Fellowship (July 2018); Currently completing post-doctoral fellowship at the University of California San Diego

Rianna Murray Spring 2014-Fall 2018; PhD program in Toxicology (Co-Advisor: Sacoby Wilson) Working on special projects in my lab; University of Maryland Graduate Research Appreciation Day, First Place Poster Winner (April 2016) Wait Family Environmental Graduate Scholarship Winner (June 2016); University of Maryland School of Public Health, Dean's Scholar Awardee (2016); International Association for Food Protection, Student Travel Scholarship Winner (July 2017); University of Maryland Graduate Research Appreciation Day, First Place Poster Winner (April 2017); Awardee, Lee Thornton Fellowship (Spring 2017); MIAEH Summer Research Fellowship (2017); Awardee, Jacob K. Goldhaber Travel Award (2017); UMD School of Public Health, Dean's Fellowship (June 2018); Currently a post-doctoral fellow in my group

Prachi Kulkarni Fall 2012-Fall 2016; PhD program in Toxicology and Environmental Health; Dean's Fellowship (Fall 2012-Spring 2013); CONSERVE International Scholarship, Israel (January 2017). Dissertation titled "*Antibiotic concentrations and the composition of bacterial communities in municipal wastewater and reclaimed water*"; Currently a Research Associate, USDA Beltsville Agricultural Research Center

- Rachel E. Rosenberg Goldstein Fall 2010-Spring 2013; Began in PhD program in Epidemiology and transferred into PhD program in Toxicology and Environmental Health, Spring 2012; Dean's Fellowship (Fall 2010 – Spring 2013); University of Maryland Graduate Student Summer Research Fellowship (Fall 2010 – Spring 2013); University of Maryland Graduate Research Interaction Day Health Presentation Award (2nd place) (April 2011); University of Maryland, College Park School of Public Health, Student Research Interaction Day Poster Award (September 2011); APHA Environment Section Student Scholarship (October 2011); University of Maryland Bioscience & Technology Review Day Water Quality and Management Poster Winner (November 2011); Maryland Institute for Applied Environmental Health Fellowship (November 2011 – Spring 2012); Student Scholarship, Priester National Extension Health Conference (April 2012); "Engaged Me" Award, Priester National Extension Health Conference (April 2012); University of Maryland Bioscience & Technology Review Day Family, Community and Public Health Poster Winner (November 2012); University of Maryland School of Public Health, Dean's Scholar Awardee (2013); Dissertation titled "*Antibiotic-resistant bacteria in wastewater and potential human exposure through wastewater reuse*"; Currently an Assistant Professor, University of Maryland School of Public Health
- Erinna Kinney Fall 2009-Spring 2010; PhD program in Marine Estuarine Environmental Sciences; 2009 American Public Health Association (APHA), Environment Section Student Scholarship Award; Currently is a Public Health Scientist-Lead at the Maryland Department of Health and Mental Hygiene

PhD Students, Committee Member

- Chanelle Acheamfour Fall 2017-Present; PhD program in Food Science and Technology at the University of Maryland Eastern Shore (Primary Advisor: Fawzy Hashem)
- Arlene Chen Fall 2014-Present; PhD program in Cell Biology and Molecular Genetics (Primary Advisor: Anwar Huq)
- Latisha Judd Fall 2013-Fall 2018; PhD program in Animal Science (Primary Advisor: Richard Kohn)
- Mary Larkin Fall 2014-Fall 2016; PhD program in Toxicology, University of Maryland, School of Medicine (Primary Advisor: Kathy Squibb)
- A.K. Leight Fall 2010-Fall 2016; PhD program in Marine Estuarine Environmental Sciences; Dissertation titled "*Dynamics and drivers of fecal indicator bacteria and associated bacterial community members in estuarine waters*" (Primary Advisors: Byron Crump and Raleigh Hood, Horn Point)
- Sarah Allard Spring 2016-Fall 2016; PhD program in Plant Sciences and Landscape Architecture (Primary Advisor: Shirley Micallef); Dissertation titled "*Bacterial communities of the specialty crop phyllosphere: Response to agricultural soil amendment use, rainfall and insect visitation.*"
- Kimberly Mitchell Fall 2013-Spring 2015; PhD program in Behavioral and Community Health; Dissertation titled "*Assessing knowledge, attitudes and behaviors toward West Nile Virus prevention among adults ≥ 60 years old in Maryland: An application of the health belief model*" (Primary Advisor: Donna Howard); Currently an Epidemiologist at the Maryland Department of Health and Mental Hygiene

Kristi Shaw	Fall 2007-Spring 2013; PhD program in Marine Estuarine Environmental Sciences; Dissertation titled <i>“Ecological and human exposure assessment of select bacterial and viral pathogens in estuarine and marine areas of importance to public use”</i> (Primary Advisor: Byron Crump, Horn Point)
Bradd J. Haley	Defended Spring 2012; PhD program in University of Maryland Institute for Advanced Computer Studies; Dissertation titled <i>“Polyphasic analyses on the natural ecology of human pathogens”</i> (Primary Advisor: Rita Colwell); <u>Currently a Research Microbiologist at the U.S. Department of Agriculture</u>
<u>Master of Public Health (MPH) Students, Major Advisor</u>	
Rhodel Bradshaw	Fall 2015-Spring 2017; MPH student in Environmental Health Sciences
Kelsey Babik	Fall 2013-Spring 2015; MPH in Environmental Health Sciences: University of Maryland School of Public Health, Dean’s Scholar Awardee (2015); Capstone Project titled <i>“Biosafety plan for select agents toxins”</i> <u>Currently an Industrial Hygienist fellow at CDC/NIOSH</u>
Molly Reid	Fall 2013-Summer 2015; MPH in Environmental Health Sciences: Thesis titled <i>“Impact of Cryptosporidium spp. interaction with co-occurring microorganisms on moderate-to-severe diarrhea in the developing world”</i> ; <u>Currently a Research Assistant at the University of California San Francisco, Samsung Digital Health and Innovation Lab</u>
Meleah Boyle	Fall 2012-Summer 2014; MPH in Environmental Health Sciences; University of Maryland School of Public Health, Dean’s Scholar Awardee (2014); Thesis titled <i>“Monitoring and assessment of residential exposure to noise associated with natural gas compressor stations in West Virginia”</i> ; <u>Currently a doctoral student at the University of Maryland School of Public Health</u>
Stephanie Carey	Fall 2012-Spring 2013; MPH in Environmental Health Sciences; University of Maryland School of Public Health, Dean’s Scholar Awardee (2013); Thesis titled <i>“Assessing the presence of antibiotic-resistant Enterococcus in reclaimed water used for spray irrigation”</i> <u>Currently in Medical School</u>
June de Graft-Hansen	Fall 2011-Fall 2013
Barbara Zappe	Fall 2010-Fall 2013; MPH in Environmental Health Sciences; Thesis titled <i>“Impact of Rurality, Broiler Operations, and Community Socioeconomic Factors on the Risk of Campylobacteriosis in Maryland”</i> ; APHA Environment Section Student Poster Award (October 2012); Public Health Research @ Maryland, Outstanding Academic Poster Award (April 2013)
Allison Tjaden	Fall 2010-Spring 2012; MPH in Environmental Health Sciences; Capstone project titled <i>“UMD Dining Services Sustainable Food Action Plan”</i> ; <u>Currently working as an Assistant Director of New Initiatives with UMD Dining Services; Winner of 2015 “Fifty under 50 Food Heroes: Transforming DC’s Food System”</u>
Rachel E. Rosenberg	Fall 2008-Spring 2010; MPH in Environmental Health Sciences; Thesis titled <i>“Evaluation of antibiotic-resistant bacteria in tertiary treated wastewater, reclaimed wastewater used for spray irrigation, and resulting occupational exposures”</i> ; Jacob K. Goldhaber Travel Grant (August 2009); American Public

Health Association Environment Section's Student Achievement Poster Award (November 2009); University of Maryland Bioscience & Technology Review Day Family, Community and Public Health Poster Award (November 2009); Dean's Graduate Scholar (March 2010); Maryland Water Resources Research Center 2010 Summer Fellowship (May-August, 2010); Currently a Research Assistant Professor at the University of Maryland

Erinna Kinney Fall 2007-Spring 2009; MPH in Environmental Health Sciences; Thesis titled *"Isolation, identification and antimicrobial susceptibility analysis of Enterococcus spp. and Salmonella spp. from conventional poultry farms transitioning to organic farming practices"*; Currently a Public Health Scientist-Lead at the Maryland Department of Health and Mental Hygiene

Master Students, Committee Member or Minor Advisor on Special Research Project

Priti Patel Summer 2014-Spring 2015; MPH in Environmental Health Sciences; Currently a Research Analyst at IQ Solutions

Christopher Caler Fall 2012-Spring 2013; MPH in Environmental Health Sciences; Capstone Project titled *"Containment Testing of Compressed Gas Cylinders Within Chemical Fume Hoods – Are only Lecture Bottles Safe?"* Currently a Laboratory Safety and Industrial Hygiene Specialist at the University of Maryland

Jake Guag Fall 2010-Fall 2012; MPH in Environmental Health Sciences; Thesis titled *"Residual DNA in Commercial Taq DNA Polymerase as a Source of Interference with Immuno-PCR Assay"*; Currently a Biologist at the U.S. Food and Drug Administration

Greg Raspanti Fall 2010-Spring 2012; MPH in Environmental Health Sciences; Thesis titled *"Environmental impacts on fecal indicator bacteria in five national park recreational water areas"*; Currently a Post-doctoral Fellow at the UMD School of Public Health

Donna Pahl Fall 2009-Fall 2010; Master of Plant Science program in Plant Sciences and Landscape Architecture (Primary Advisor: Chris Walsh); Thesis titled *"Comparing source of agricultural contact water and the presence of fecal indicator organisms on the surface of "Juliet" grape tomatoes"* Currently a Southwest Regional Extension Associate at Cornell University.

Cheryl Carmona Fall 2008-Fall 2010; MS in Environmental Science and Technology (Primary Advisor: Joshua McGrath); Thesis titled *"Agri-environmental assessment of pelletized broiler litter in corn production: laboratory studies"* Founder of Boone Street Farm, an urban agriculture organization in Baltimore, MD; Gave a TED Talk in 2014: Baltimore's Urban Soil, <https://www.youtube.com/watch?v=spyEYaibOGw>

Zenas Chang Fall 2007-Fall 2010; MS in Cell Biology and Molecular Genetics; Thesis titled *"A study of unusual metabolic variants of Aeromonas caviae and Aeromonas hydrophila using a polyphasic taxonomic approach"* Currently an OB/GYN Resident at the University of Connecticut Health Center

Joanne Perodin Fall 2007-Spring 2009; MPH in Environmental Health Sciences; Thesis titled *"Cross sectional evaluation of potential volatile organic compound exposures around U.S. Schools"*; Currently the owner of CinetikFit

Jennifer Cockrill Summer 2008; MPH student at the UC Berkeley School of Public Health; Completed summer internship working on a project regarding the spread of antibiotic-resistant bacteria from agricultural poultry litter application to surface water sources; Currently and Epidemiologist at the Armed Forces Health Surveillance Center in Washington, D.C.

Shauna Sweet Spring 2008; MS in Survey Design; Advisor on project titled “*Self-prescribed use of antimicrobials for menstrual symptoms among Nigerian university students;*” Co-author on one poster presentation at APHA and one published, peer-reviewed paper; Currently a Quantitative Methodologist at Nyla Technology Solutions

Extension Activities

2011-Present Development of Safe Drinking Water Clinics in Maryland Counties where well owners learn how to properly collect well samples for testing, interpret the test results and implement interventions if necessary.
Co-investigators: Karen Aspinwall, Elisabeth Maring, Daphne Pee, Rachel Rosenberg Goldstein

Service

Service to Academic and Public Health Communities

2013 Contributed professional expertise to a video that was created to highlight the history and work of the Center for a Livable Future, Johns Hopkins Bloomberg School of Public Health

2011-2014 Co-Chair and Member, Geospatial Working Group, Centers for Disease Control and Prevention, FoodNet Program

2003-2005 Member, Advisory Committee, Johns Hopkins Center for Excellence in Community Environmental Health Practice

Departmental Service

Search Committees

2015 Member, Search committee for Director, MIAEH

2013 Chair, Search committee for tenure-track Assistant Professor, MIAEH

2010 Member, Search committee for three tenure-track positions at the assistant/associate level, MIAEH

2010 Member, Search committee for Coordinator, MIAEH

2008 Member, Search committee for Chair, MIAEH

Other MIAEH Service

2015-2017 Curriculum development, PhD in Environmental Health Sciences

2015-Present Member, MIAEH Executive Committee

2013-Present Member, Advancement, Promotion and Tenure (APT) committee

2008-Present Chair, Departmental programs, curricula and courses (PCC) committee

2013-2014 Member, Communications/Website committee

2012-2014 Member, Awards Committee

2008-2013 Member, Committee on adjunct/affiliate faculties

2008-2013 Member, Graduate recruitment and admissions committee

2008-2013	Member, Faculty merits committee
2008-2011	Library liaison
2008-2011	Institutional Review Board (IRB) liaison
2008-2011	Chair, Awards committee
2007-Present	Curriculum development for MIAEH MPH and PhD programs
2007-Present	Competencies development for MIAEH MPH and PhD programs

School Service

2015	Participated in CEPH site visit
2014-Present	Member, School Programs, Curricula and Courses (PCC) Committee
2014-2015	Member, Committee on the development of Public Health Science Undergraduate Degree
2014	Member, Committee Conducting the Review of MIAEH Chair
2010-2013	Chair, School Programs, Curricula and Courses (PCC) Committee
2010-2011	Member, Executive Committee of the School Assembly
2009	Provided input to Council on Education in Public Health (CEPH) accreditation process
2009	Participated in CEPH site visit
2008-2010	Chair, School Interdisciplinary Committee
2008-2010	Member, School Programs, Curricula and Courses (PCC) Committee
2008-2010	Member, Learning Outcomes Assessment (LOA) Committee
2007	Member, Search committee for Exercise Physiologist, Dept. of Kinesiology
2007	Respondent, John Snow Symposium, The Blue Death, September 10, 2007

University Service

2017-Present	Member, Vice President of Research's Inclusive Excellence in Research Committee
2014-2015	Member, College Park City University Partnership (CPCUP), Center for Young Children Expansion Workgroup
2013-2015	Member, University of Maryland Senate, Programs, Curriculum and Courses Committee
2012	Participated in "Hey Impossible, Fear the Turtle" video project targeted towards UMD alumni, and was highlighted as a "Health Hero" http://www.umd.edu/ftt/
2012	Member, Search committee for tenure-track ecotoxicologist, Department of Environmental Science and Technology
2007-2008	Member, Search committee for tenure-track environmental health scientist, Department of Environmental Science and Technology

Community, State, National

4/30/12	Provided oral testimony to the Prince George's County District Council concerning the social and environmental impacts of the proposed rezoning of the Cafritz property in Riverdale, MD
7/16/09	Provided written testimony to the Peachbottom Township, PA School Board regarding the location of a proposed large-scale swine facility
12/18/07	Provided oral testimony in Peachbottom Township, PA; Zoning Commission Hearing for the placement of a large-scale swine facility.
2004	Certified Voter Registrar, Baltimore City Board of Elections
2000-2001	Volunteer, Baltimore Environmentors Project
1998-1999	Volunteer, New Haven Boys and Girls Club, New Haven, CT