



## Alexandria Boehm

Professor of Civil and Environmental Engineering, of Oceans and Senior Fellow at the Woods Institute for the Environment

### CONTACT INFORMATION

- **Administrator**

Carine Sauquet - Administrative Associate

**Email** sauquet@stanford.edu

**Tel** (650) 725-2383

### Bio

---

#### BIO

I am interested in pathogens in the environment including their sources, fate, and transport in natural and engineered systems. I am interested in understanding of how pathogens are transmitted to humans through contact with water, feces, and contaminated surfaces. My research is focused on key problems in both developed and developing countries with the overarching goal of designing and testing novel interventions and technologies for reducing the burden of disease.

I am also interested broadly in coastal water quality where my work addresses the sources, transformation, transport, and ecology of biocolloids - specifically fecal indicator organisms, DNA, pathogens, and phytoplankton - as well as sources and fate of nitrogen. This knowledge is crucial to formulating new management policies and engineering practices that protect human and ecosystem health at the coastal margins.

#### ACADEMIC APPOINTMENTS

- Professor, Civil and Environmental Engineering
- Senior Fellow, Stanford Woods Institute for the Environment
- Professor, Oceans
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Senior Fellow, Stanford Woods Institute for the Environment

#### ADMINISTRATIVE APPOINTMENTS

- Faculty Fellow, Center for Innovation in Global Health, (2015- present)

#### HONORS AND AWARDS

- Elected to the National Academy of Engineering, The National Academies (2024)
- Huber Prize, ASCE (2016)
- Participant in National Academy of Engineers' Frontiers of Engineering Symposium, National Academy of Engineers (2008)
- CAREER Award, National Science Foundation (2007)

- Visiting Scholar, Pacific Rim Center for Oceans and Human Health (2007)
- Excellence in Teaching Award, UC Irvine (2001)
- Faculty Fellow Award, UC Irvine (2000-2002)
- Chair of West Coast Panel on Ocean Acidification and Hypoxia, States of California, Oregon, Washington, Province of British Columbia (2013-2016)

## PROFESSIONAL EDUCATION

- BS, California Institute of Technology , Engineering & Applied Science (1996)
- MS, UC Irvine , Environmental Engineering (1997)
- PhD, UC Irvine (2000)

## COMMUNITY AND INTERNATIONAL WORK

- Pathogen contamination in household environments, Bangladesh

## LINKS

- <https://web.stanford.edu/~aboehm>: <https://web.stanford.edu/~aboehm>

## Research & Scholarship

---

## PROJECTS

- Microbial Source Tracking in Developing Countries - Stanford University
- Coastal Water Quality - Citizen science

## Teaching

---

## COURSES

### 2023-24

- California Coast: Science, Policy and Law: LAW 2510 (Spr)
- California Coast: Science, Policy, and Law: CEE 175A, CEE 275A (Spr)
- Environmental Health Microbiology Lab: CEE 274P (Aut)

### 2022-23

- Environmental Health Microbiology Lab: CEE 274P (Aut)
- SARS-CoV-2 in the Environment: CEE 371C (Win)

### 2021-22

- Clean Water Now! Urban Water Conflicts: CEE 41Q (Win)
- Environmental Health Microbiology Lab: CEE 274P (Spr)
- SARS-CoV-2 in the Environment: CEE 371C (Aut)

## STANFORD ADVISEES

### Doctoral Dissertation Reader (AC)

Chandler Brown, Liam Herndon, Lorelay Mendoza Grijalva

### Postdoctoral Faculty Sponsor

Claire Anderson, Mengyang Zhang, Alessandro Zulli

### Doctoral Dissertation Advisor (AC)

Elana Chan, Sarah Lowry, Laura Roldan, Winnie Zambrana Orozco

#### Master's Program Advisor

Konane Gurfield, Xinyu Jing, Myla Kahn

#### Doctoral Dissertation Co-Advisor (AC)

Meghan Shea

#### Doctoral (Program)

Elana Chan, Sarah Lowry, Camila Van Oost, Gang Zheng

## Publications

---

### PUBLICATIONS

- **Maximizing the Impact of Research Featuring Nucleic-Acid Sequencing Methods in Environmental Science & Technology and Environmental Science & Technology Letters.** *Environmental science & technology*  
Boehm, A. B., Raskin, L., Alvarez, P., Hong, P.  
2024; 58 (19): 8115-8116
- **Observations of Respiratory Syncytial Virus (RSV) Nucleic Acids in Wastewater Solids Across the United States in the 2022-2023 Season: Relationships with RSV Infection Positivity and Hospitalization Rates.** *ACS ES&T water*  
Zulli, A., Varkila, M. R., Parsonnet, J., Wolfe, M. K., Boehm, A. B.  
2024; 4 (4): 1657-1667
- **Persistence and free chlorine disinfection of human coronaviruses and their surrogates in water.** *Applied and environmental microbiology*  
Zhang, M., Leong, M. W., Mitch, W. A., Blish, C. A., Boehm, A.  
2024: e0005524
- **Persistence of human respiratory viral RNA in wastewater-settled solids.** *Applied and environmental microbiology*  
Zhang, M., Roldan-Hernandez, L., Boehm, A.  
2024: e0227223
- **Is detection of enteropathogens and human or animal faecal markers in the environment associated with subsequent child enteric infections and growth: an individual participant data meta-analysis.** *The Lancet. Global health*  
Mertens, A., Arnold, B. F., Benjamin-Chung, J., Boehm, A. B., Brown, J., Capone, D., Clasen, T., Fuhrmeister, E. R., Grembi, J. A., Holcomb, D., Knee, J., Kwong, L. H., Lin, et al  
2024; 12 (3): e433-e444
- **Observations of Respiratory Syncytial Virus (RSV) Nucleic Acids in Wastewater Solids Across the United States in the 2022-2023 Season: Relationships with RSV Infection Positivity and Hospitalization Rates** *ACS ES&T WATER*  
Zulli, A., Varkila, M. J., Parsonnet, J., Wolfe, M. K., Boehm, A. B.  
2024
- **A retrospective longitudinal study of adenovirus group F, norovirus GI and GII, rotavirus, and enterovirus nucleic acids in wastewater solids at two wastewater treatment plants: solid-liquid partitioning and relation to clinical testing data.** *mSphere*  
Boehm, A. B., Shelden, B., Duong, D., Banaei, N., White, B. J., Wolfe, M. K.  
2024: e0073623
- **Wastewater surveillance for bacterial targets: current challenges and future goals.** *Applied and environmental microbiology*  
Philo, S. E., De Leon, K. B., Noble, R. T., Zhou, N. A., Alghafri, R., Bar-Or, I., Darling, A., D'Souza, N., Hachimi, O., Kaya, D., Kim, S., Gaardbo Kuhn, K., Layton, et al  
2023: e0142823
- **Temperature and particles interact to affect human norovirus and MS2 persistence in surface water.** *Environmental science. Processes & impacts*  
Kennedy, L. C., Lowry, S. A., Boehm, A. B.  
2023
- **Wastewater Detection of Emerging Arbovirus Infections: Case Study of Dengue in the United States** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*

- 
- Wolfe, M. K., Paulos, A., Zulli, A., Duong, D., Shelden, B., White, B. J., Boehm, A. B.  
2023; 11 (1): 9-15
- **Sunlight Inactivation of Enveloped Viruses in Clear Water.** *Environmental science & technology*  
Anderson, C. E., Boehm, A. B.  
2023
  - **The National Wastewater Surveillance System's Centers of Excellence Contributions to Public Health Action During the Respiratory Virus** *MMWR-MORBIDITY AND MORTALITY WEEKLY REPORT*  
Valencia, D., Yu, A., Wheeler, A., Hopkins, L., Pray, I., Horter, L., Vugia, D. J., Matzinger, S., Stadler, L., Kloczko, N., Welton, M., Bertsch-Merbach, S., Domakonda, et al  
2023; 72 (48): 1309-1312
  - **United States Influenza 2022-2023 Season Characteristics as Inferred from Wastewater Solids, Influenza Hospitalization, and Syndromic Data.** *Environmental science & technology*  
Schoen, M. E., Bidwell, A. L., Wolfe, M. K., Boehm, A. B.  
2023
  - **Rebuttal to Correspondence on "The Environmental Microbiology Minimum Information (EMMI) Guidelines: qPCR and dPCR Quality and Reporting for Environmental Microbiology".** *Environmental science & technology*  
Borchardt, M. A., Boehm, A. B., Salit, M., Spencer, S. K., Wigginton, K. R., Noble, R. T.  
2023
  - **Correction to "SARS-CoV-2 RNA in Wastewater Settled Solids Is Associated with COVID-19 Cases in a Large Urban Sewershed".** *Environmental science & technology*  
Graham, K. E., Loeb, S., Roldan-Hernandez, L., Kim, S., Wigginton, K. R., Boehm, A.  
2023
  - **Occurrence of Human Viruses on Fomites in the Environment: A Systematic Review and Meta-analysis.** *ACS environmental Au*  
Zambrana, W., Boehm, A. B.  
2023; 3 (5): 277-294
  - **Adsorption of Respiratory Syncytial Virus, Rhinovirus, SARS-CoV-2, and F+ Bacteriophage MS2 RNA onto Wastewater Solids from Raw Wastewater.** *Environmental science & technology*  
Roldan-Hernandez, L., Boehm, A. B.  
2023
  - **The Environmental Microbiology Minimum Information (EMMI) Guidelines: qPCR and dPCR Quality and Reporting for Environmental Microbiology (vol 55, pg 10210, 2021)** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Borchardt, M. A., Boehm, A. B., Salit, M., Spencer, S. K., Wigginton, K. R., Noble, R. T.  
2023: 12931
  - **More than a Tripledemic: Influenza A Virus, Respiratory Syncytial Virus, SARS-CoV-2, and Human Metapneumovirus in Wastewater during Winter 2022-2023.** *Environmental science & technology letters*  
Boehm, A. B., Wolfe, M. K., White, B. J., Hughes, B., Duong, D., Bidwell, A.  
2023; 10 (8): 622-627
  - **Human norovirus (HuNoV) GII RNA in wastewater solids at 145 United States wastewater treatment plants: comparison to positivity rates of clinical specimens and modeled estimates of HuNoV GII shedders.** *Journal of exposure science & environmental epidemiology*  
Boehm, A. B., Wolfe, M. K., White, B. J., Hughes, B., Duong, D., Banaei, N., Bidwell, A.  
2023
  - **Occurrence of Human Viruses on Fomites in the Environment: A Systematic Review and Meta-analysis** *ACS ENVIRONMENTAL AU*  
Zambrana, W., Boehm, A. B.  
2023
  - **More than a Tripledemic: Influenza A Virus, Respiratory Syncytial Virus, SARS-CoV-2, and Human Metapneumovirus in Wastewater during Winter 2022-2023** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Boehm, A. B., Wolfe, M. K., White, B. L., Hughes, B., Duong, D., Bidwell, A.  
2023

- **The Tomato Brown Rugose Fruit Virus Movement Protein Gene Is a Novel Microbial Source Tracking Marker.** *Applied and environmental microbiology*  
Natarajan, A., Fremin, B. J., Schmidtke, D. T., Wolfe, M. K., Zlitni, S., Graham, K. E., Brooks, E. F., Severyn, C. J., Sakamoto, K. M., Lacayo, N. J., Kuersten, S., Koble, J., Caves, et al  
2023; e0058323
- **Expansion of wastewater-based disease surveillance to improve health equity in California's Central Valley: sequential shifts in case-to-wastewater and hospitalization-to-wastewater ratios.** *Frontiers in public health*  
Kadonsky, K. F., Naughton, C. C., Susa, M., Olson, R., Singh, G. L., Daza-Torres, M. L., Montesinos-López, J. C., Garcia, Y. E., Gafurova, M., Gushgari, A., Cosgrove, J., White, B. J., Boehm, et al  
2023; 11: 1141097
- **Human viral nucleic acids concentrations in wastewater solids from Central and Coastal California USA.** *Scientific data*  
Boehm, A. B., Wolfe, M. K., Wigginton, K. R., Bidwell, A., White, B. J., Hughes, B., Duong, D., Chan-Herur, V., Bischel, H. N., Naughton, C. C.  
2023; 10 (1): 396
- **Longitudinal and quantitative fecal shedding dynamics of SARS-CoV-2, pepper mild mottle virus, and crAssphage.** *mSphere*  
Arts, P. J., Kelly, J. D., Midgley, C. M., Anglin, K., Lu, S., Abedi, G. R., Andino, R., Bakker, K. M., Banman, B., Boehm, A. B., Briggs-Hagen, M., Brouwer, A. F., Davidson, et al  
2023; e0013223
- **Respiratory virus concentrations in human excretions that contribute to wastewater: a systematic review and meta-analysis.** *Journal of water and health*  
Lowry, S. A., Wolfe, M. K., Boehm, A. B.  
2023; 21 (6): 831-848
- **Respiratory virus concentrations in human excretions that contribute to wastewater: a systematic review and meta-analysis** *JOURNAL OF WATER AND HEALTH*  
Lowry, S. A., Wolfe, M. K., Boehm, A.  
2023
- **Enveloped and non-enveloped virus survival on microfiber towels.** *PeerJ*  
Anderson, C. E., Wolfe, M. K., Boehm, A. B.  
2023; 11: e15202
- **Systematic review of marine environmental DNA metabarcoding studies: toward best practices for data usability and accessibility.** *PeerJ*  
Shea, M. M., Kuppermann, J., Rogers, M. P., Smith, D. S., Edwards, P., Boehm, A. B.  
2023; 11: e14993
- **Wastewater concentrations of human influenza, metapneumovirus, parainfluenza, respiratory syncytial virus, rhinovirus, and seasonal coronavirus nucleic-acids during the COVID-19 pandemic: a surveillance study.** *The Lancet. Microbe*  
Boehm, A. B., Hughes, B., Duong, D., Chan-Herur, V., Buchman, A., Wolfe, M. K., White, B. J.  
2023
- **Wastewater monitoring of SARS-CoV-2 RNA at K-12 schools: comparison to pooled clinical testing data.** *PeerJ*  
Kim, S., Boehm, A. B.  
2023; 11: e15079
- **Effects of water, sanitation, and hygiene interventions on detection of enteropathogens and host-specific faecal markers in the environment: a systematic review and individual participant data meta-analysis.** *The Lancet. Planetary health*  
Mertens, A., Arnold, B. F., Benjamin-Chung, J., Boehm, A. B., Brown, J., Capone, D., Clasen, T., Fuhrmeister, E., Grembi, J. A., Holcomb, D., Knee, J., Kwong, L. H., Lin, et al  
2023; 7 (3): e197-e208
- **Effects of water, sanitation, and hygiene interventions on detection of enteropathogens and host-specific faecal markers in the environment: a systematic review and individual participant data meta-analysis** *LANCET PLANETARY HEALTH*  
Mertens, A., Arnold, B. F., Benjamin-Chung, J., Boehm, A. B., Brown, J., Capone, D., Clasen, T., Fuhrmeister, E., Grembi, J. A., Holcomb, D., Knee, J., Kwong, L. H., Lin, et al  
2023; 7 (3): E197-E208
- **Persistence of Human Norovirus (GII) in Surface Water: Decay Rate Constants and Inactivation Mechanisms.** *Environmental science & technology*  
Kennedy, L. C., Costantini, V. P., Huynh, K. A., Loeb, S. K., Jennings, W. C., Lowry, S., Mattioli, M. C., Vinje, J., Boehm, A. B.  
2023

- **Investigating the Efficacy of Various Handwashing Methods against Enveloped and Non-Enveloped Viruses.** *The American journal of tropical medicine and hygiene*  
E Anderson, C., Tong, J., Zambrana, W., B Boehm, A., K Wolfe, M.  
2023
- **Use of Wastewater for Mpox Outbreak Surveillance in California.** *The New England journal of medicine*  
Wolfe, M. K., Yu, A. T., Duong, D., Rane, M. S., Hughes, B., Chan-Herur, V., Donnelly, M., Chai, S., White, B. J., Vugia, D. J., Boehm, A. B.  
2023
- **Tomato brown rugose fruit virus Mo gene is a novel microbial source tracking marker.** *bioRxiv : the preprint server for biology*  
Natarajan, A., Fremin, B. J., Schmidtke, D. T., Wolfe, M. K., Zlitni, S., Graham, K. E., Brooks, E. F., Severyn, C. J., Sakamoto, K. M., Lacayo, N. J., Kuersten, S., Koble, J., Caves, et al  
2023
- **Trends of Enterovirus D68 Concentrations in Wastewater, California, USA, February 2021-April 2023.** *Emerging infectious diseases*  
Boehm, A. B., Wadford, D. A., Hughes, B., Duong, D., Chen, A., Padilla, T., Wright, C., Moua, L., Bullick, T., Salas, M., Morales, C., White, B. J., Glaser, et al  
2023; 29 (11): 2362-2365
- **Divergence of wastewater SARS-CoV-2 and reported laboratory-confirmed COVID-19 incident case data coincident with wide-spread availability of at-home COVID-19 antigen tests.** *PeerJ*  
Boehm, A. B., Wolfe, M. K., White, B., Hughes, B., Duong, D.  
2023; 11: e15631
- **High-frequency fecal indicator bacteria (FIB) observations to assess water quality drivers at an enclosed beach.** *PloS one*  
Searcy, R. T., Phaneuf, J. R., Boehm, A. B.  
2023; 18 (6): e0286029
- **Quantifying the Viral Reduction Achieved Using Ash and Sand as Handwashing Agents.** *The American journal of tropical medicine and hygiene*  
Zambrana, W., Tong, J., E Anderson, C., B Boehm, A., Wolfe, M. K.  
2022
- **Know Before You Go: Data-Driven Beach Water Quality Forecasting.** *Environmental science & technology*  
Searcy, R. T., Boehm, A. B.  
2022
- **SARS-CoV-2 RNA Wastewater Settled Solids Surveillance Frequency and Impact on Predicted COVID-19 Incidence Using a Distributed Lag Model.** *ACS ES&T water*  
Schoen, M. E., Wolfe, M. K., Li, L., Duong, D., White, B. J., Hughes, B., Boehm, A. B.  
2022; 2 (11): 2167-2174
- **Persistence of Endogenous SARS-CoV-2 and Pepper Mild Mottle Virus RNA in Wastewater-Settled Solids.** *ACS ES&T water*  
Roldan-Hernandez, L., Graham, K. E., Duong, D., Boehm, A. B.  
2022; 2 (11): 1944-1952
- **Prevalence of Positive Rapid Antigen Tests After 7-Day Isolation Following SARS-CoV-2 Infection in College Athletes During Omicron Variant Predominance.** *JAMA network open*  
Tsao, J., Kussman, A., Segovia, N. A., Abrams, G. D., Boehm, A. B., Hwang, C. E.  
2022; 5 (10): e2237149
- **Interlaboratory performance and quantitative PCR data acceptance metrics for NIST SRM 2917.** *Water research*  
Sivaganesan, M., Willis, J. R., Karim, M., Babatola, A., Catoe, D., Boehm, A. B., Wilder, M., Green, H., Lobos, A., Harwood, V. J., Hertel, S., Klepikow, R., Howard, et al  
2022; 225: 119162
- **Our Selections for the Best ES&T Letters Papers in 2021** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Brooks, B. W., Arnold, W. A., Boehm, A. B., Hamilton, J. F., Martin, J. W., Mihelcic, J. R., Mitrano, D. M., Ren, Z., Schlenk, D., Wang, S.  
2022; 9 (8): 658-659
- **Modeling infection from SARS-CoV-2 wastewater concentrations: promise, limitations, and future directions.** *Journal of water and health*  
Soller, J., Jennings, W., Schoen, M., Boehm, A., Wigginton, K., Gonzalez, R., Graham, K. E., McBride, G., Kirby, A., Mattioli, M.

2022; 20 (8): 1197-1211

- **Wastewater surveillance for rapid identification of infectious diseases in prisons** *LANCET MICROBE*  
Hassard, F., Smith, T. R., Boehm, A. B., Nolan, S., O'Mara, O., Di Cesare, M., Graham, D.  
2022; 3 (8): E556-E557
- **Modeling infection from SARS-CoV-2 wastewater concentrations: promise, limitations, and future directions** *JOURNAL OF WATER AND HEALTH*  
Soller, J., Jennings, W., Schoen, M., Boehm, A., Wigginton, K., Gonzalez, R., Graham, K. E., McBride, G., Kirby, A., Mattioli, M.  
2022
- **Differential Overlap in Human and Animal Fecal Microbiomes and Resistomes in Rural versus Urban Bangladesh** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Swarthout, J. M., Fuhrmeister, E. R., Hamzah, L., Harris, A. R., Ahmed, M. A., Gurley, E. S., Satter, S. M., Boehm, A. B., Pickering, A. J.  
2022
- **Wastewater-Based Detection of Two Influenza Outbreaks** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Wolfe, M. K., Duong, D., Bakker, K. M., Ammerman, M., Mortenson, L., Hughes, B., Arts, P., Luring, A. S., Fitzsimmons, W. J., Bendall, E., Hwang, C. E., Martin, E. T., White, et al  
2022
- **Data Science for Advancing Environmental Science, Engineering, and Technology: Upcoming Special and Virtual Issues in ES&T and ES&T Letters** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
V. Lowry, G., Boehm, A. B., Brooks, B. W., Gago-Ferrero, P., Jiang, G., Jones, G. D., Liu, Q., Ren, Z. J., Wang, S., Zimmerman, J.  
2022
- **Regional Replacement of SARS-CoV-2 Variant Omicron BA.1 with BA.2 as Observed through Wastewater Surveillance.** *Environmental science & technology letters*  
Boehm, A. B., Hughes, B., Wolfe, M. K., White, B. J., Duong, D., Chan-Herur, V.  
2022; 9 (6): 575-580
- **Data Science for Advancing Environmental Science, Engineering, and Technology: Upcoming Special and Virtual Issues in ES&T and ES&T Letters** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Lowry, G. V., Boehm, A. B., Brooks, B. W., Gago-Ferrero, P., Jiang, G., Jones, G. D., Liu, Q., Ren, Z. J., Wang, S., Zimmerman, J.  
2022
- **Integrating Environmental Dimensions of "One Health" to Combat Antimicrobial Resistance: Essential Research Needs.** *Environmental science & technology*  
Jin, L., Pruden, A., Boehm, A. B., Alvarez, P. J., Raskin, L., Kohn, T., Li, X.  
2022
- **Wastewater surveillance for rapid identification of infectious diseases in prisons.** *The Lancet. Microbe*  
Hassard, F., Smith, T. R., Boehm, A. B., Nolan, S., O'Mara, O., Di Cesare, M., Graham, D.  
2022
- **SARS-CoV-2 RNA and N Antigen Quantification via Wastewater at the Campus Level, Building Cluster Level, and Individual-Building Level** *ACS ES&T WATER*  
Zambrana, W., Catoe, D., Coffman, M. M., Kim, S., Anand, A., Solis, D., Sahoo, M. K., Pinsky, B. A., Bhatt, A. S., Boehm, A. B., Wolfe, M. K.  
2022
- **SARS-CoV-2 RNA and N Antigen Quantification via Wastewater at the Campus Level, Building Cluster Level, and Individual-Building Level.** *ACS ES&T water*  
Zambrana, W., Catoe, D., Coffman, M. M., Kim, S., Anand, A., Solis, D., Sahoo, M. K., Pinsky, B. A., Bhatt, A. S., Boehm, A. B., Wolfe, M. K.  
2022; 2 (11): 2025-33
- **Highly variable removal of pathogens, antibiotic resistance genes, conventional fecal indicators and human-associated fecal source markers in a pilot-scale stormwater biofilter operated under realistic stormflow conditions.** *Water research*  
Rugh, M. B., Grant, S. B., Hung, W., Jay, J. A., Parker, E. A., Feraud, M., Li, D., Avasarala, S., Holden, P. A., Liu, H., Rippey, M. A., Werfhorst, L. C., Kefela, et al  
2022; 219: 118525
- **Wastewater-Based Estimation of the Effective Reproductive Number of SARS-CoV-2.** *Environmental health perspectives*  
Huisman, J. S., Scire, J., Caduff, L., Fernandez-Cassi, X., Ganesanandamoorthy, P., Kull, A., Scheidegger, A., Stachler, E., Boehm, A. B., Hughes, B., Knudson, A., Topol, A., Wigginton, et al

2022; 130 (5): 57011

- **Estimating Relative Abundance of 2 SARS-CoV-2 Variants through Wastewater Surveillance at 2 Large Metropolitan Sites, United States** *EMERGING INFECTIOUS DISEASES*  
Yu, A. T., Hughes, B., Wolfe, M. K., Leon, T., Duong, D., Rabe, A., Kennedy, L. C., Ravuri, S., White, B. J., Wigginton, K. R., Boehm, A. B., Vugia, D. J.  
2022; 28 (5): 940-947
- **Impact of Disaster Research on the Development of Early Career Researchers: Lessons Learned from the Wastewater Monitoring Pandemic Response Efforts.** *Environmental science & technology*  
Delgado Vela, J., McClary-Gutierrez, J. S., Al-Faliti, M., Allan, V., Arts, P., Barbero, R., Bell, C., D'Souza, N., Bakker, K., Kaya, D., Gonzalez, R., Harrison, K., Kannoly, et al  
2022
- **Detection of SARS-CoV-2 Variants Mu, Beta, Gamma, Lambda, Delta, Alpha, and Omicron in Wastewater Settled Solids Using Mutation-Specific Assays Is Associated with Regional Detection of Variants in Clinical Samples.** *Applied and environmental microbiology*  
Wolfe, M., Hughes, B., Duong, D., Chan-Herur, V., Wigginton, K. R., White, B. J., Boehm, A. B.  
2022: e0004522
- **SARS-CoV-2 RNA is enriched by orders of magnitude in primary settled solids relative to liquid wastewater at publicly owned treatment works.** *Environmental science : water research & technology*  
Kim, S., Kennedy, L. C., Wolfe, M. K., Criddle, C. S., Duong, D. H., Topol, A., White, B. J., Kantor, R. S., Nelson, K. L., Steele, J. A., Langlois, K., Griffith, J. F., Zimmer-Faust, et al  
2022; 8 (4): 757-770
- **SARS-CoV-2 RNA is enriched by orders of magnitude in primary settled solids relative to liquid wastewater at publicly owned treatment works** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*  
Kim, S., Kennedy, L. C., Wolfe, M. K., Criddle, C. S., Duong, D. H., Topol, A., White, B. J., Kantor, R. S., Nelson, K. L., Steele, J. A., Langlois, K., Griffith, J. F., Zimmer-Faust, et al  
2022
- **p Early Evidence of the SARS-CoV-2 B.1.1.529 (Omicron) Variant in Community Wastewater - United States, November-December 2021** *MMWR-MORBIDITY AND MORTALITY WEEKLY REPORT*  
Kirby, A. E., Welsh, R. M., Marsh, Z. A., Yu, A. T., Vugia, D. J., Boehm, A. B., Wolfe, M. K., White, B. J., Matzinger, S. R., Wheeler, A., Bankers, L., Andresen, K., Salatas, et al  
2022; 71 (3): 103-105
- **Respiratory Syncytial Virus (RSV) RNA in Wastewater Settled Solids Reflects RSV Clinical Positivity Rates** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Hughes, B., Duong, D., White, B. J., Wigginton, K. R., Chan, E. G., Wolfe, M. K., Boehm, A. B.  
2022
- **James J. Morgan: Special Tribute Issue** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Hering, J. G., Hoffmann, M. R., Boehm, A. B., Gardea-Torresdey, J. L.  
2021; 55 (21): 14331-14332
- **Viral pathogens in urban stormwater runoff: Occurrence and removal via vegetated biochar-amended biofilters.** *Water research*  
Graham, K. E., Anderson, C. E., Boehm, A. B.  
2021; 207: 117829
- **Modeling Untreated Wastewater Evolution and Swimmer Illness for Four Wastewater Infrastructure Scenarios in the San Diego-Tijuana (US/MX) Border Region.** *GeoHealth*  
Feddersen, F., Boehm, A. B., Giddings, S. N., Wu, X., Liden, D.  
2021; 5 (11): e2021GH000490
- **The impact of on-premises piped water supply on fecal contamination pathways in rural Zambia** *NPJ CLEAN WATER*  
Winter, J. C., Darmstadt, G. L., Boehm, A. B., Davis, J.  
2021; 4 (1)
- **Systematic Review and Meta-Analysis of the Persistence of Enveloped Viruses in Environmental Waters and Wastewater in the Absence of Disinfectants.** *Environmental science & technology*  
Silverman, A. I., Boehm, A. B.  
2021



- **Standardizing data reporting in the research community to enhance the utility of open data for SARS-CoV-2 wastewater surveillance.** *Environmental science : water research & technology*  
McClary-Gutierrez, J. S., Aanderud, Z. T., Al-Faliti, M., Duvallet, C., Gonzalez, R., Guzman, J., Holm, R. H., Jahne, M. A., Kantor, R. S., Katsivelis, P., Kuhn, K. G., Langan, L. M., Mansfeldt, et al  
2021; 9
- **High-Frequency, High-Throughput Quantification of SARS-CoV-2 RNA in Wastewater Settled Solids at Eight Publicly Owned Treatment Works in Northern California Shows Strong Association with COVID-19 Incidence.** *mSystems*  
Wolfe, M. K., Topol, A., Knudson, A., Simpson, A., White, B., Vugia, D. J., Yu, A. T., Li, L., Balliet, M., Stoddard, P., Han, G. S., Wigginton, K. R., Boehm, et al  
2021: e0082921
- **Transfer rate of enveloped and non-enveloped viruses between fingerpads and surfaces.** *Applied and environmental microbiology*  
Anderson, C. E., Boehm, A. B.  
2021: AEM0121521
- **SARS-CoV-2 Wastewater Surveillance for Public Health Action** *EMERGING INFECTIOUS DISEASES*  
McClary-Gutierrez, J. S., Mattioli, M. C., Marcenac, P., Silverman, A., Boehm, A. B., Bibby, K., Balliet, M., de los Reyes, F. L., Gerrity, D., Griffith, J. F., Holden, P. A., Katehis, D., Kester, et al  
2021; 27 (9): 1-8
- **Preventing Scientific and Ethical Misuse of Wastewater Surveillance Data.** *Environmental science & technology*  
Coffman, M. M., Guest, J. S., Wolfe, M. K., Naughton, C. C., Boehm, A. B., Vela, J. D., Carrera, J. S.  
2021
- **Effect of storage conditions on SARS-CoV-2 RNA quantificaion in wastewater solids** *PEERJ*  
Simpson, A., Topol, A., White, B., Wolfe, M. K., Wigginton, K., Boehm, A. B.  
2021; 9
- **The Environmental Microbiology Minimum Information (EMMI) Guidelines: qPCR and dPCR Quality and Reporting for Environmental Microbiology.** *Environmental science & technology*  
Borchardt, M. A., Boehm, A. B., Salit, M., Spencer, S. K., Wigginton, K. R., Noble, R. T.  
2021
- **Standardizing data reporting in the research community to enhance the utility of open data for SARS-CoV-2 wastewater surveillance** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*  
McClary-Gutierrez, J. S., Aanderud, Z. T., Al-faliti, M., Duvallet, C., Gonzalez, R., Guzman, J., Holm, R. H., Jahne, M. A., Kantor, R. S., Katsivelis, P., Kuhn, K., Langan, L. M., Mansfeldt, et al  
2021
- **Scaling of SARS-CoV-2 RNA in Settled Solids from Multiple Wastewater Treatment Plants to Compare Incidence Rates of Laboratory-Confirmed COVID-19 in Their Sewersheds** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Wolfe, M. K., Archana, A., Catoe, D., Coffman, M. M., Dorevich, S., Graham, K. E., Kim, S., Grijalva, L., Roldan-Hernandez, L., Silverman, A., Sinnott-Armstrong, N., Vugia, D. J., Yu, et al  
2021; 8 (5): 398-404
- **Scaling of SARS-CoV-2 RNA in Settled Solids from Multiple Wastewater Treatment Plants to Compare Incidence Rates of Laboratory-Confirmed COVID-19 in Their Sewersheds.** *Environmental science & technology letters*  
Wolfe, M. K., Archana, A., Catoe, D., Coffman, M. M., Dorevich, S., Graham, K. E., Kim, S., Grijalva, L. M., Roldan-Hernandez, L., Silverman, A. I., Sinnott-Armstrong, N., Vugia, D. J., Yu, et al  
2021; 8 (5): 398-404
- **Standardized and optimized preservation, extraction and quantification techniques for detection of fecal SARS-CoV-2 RNA.** *medRxiv : the preprint server for health sciences*  
Natarajan, A., Han, A., Zlitni, S., Brooks, E. F., Vance, S. E., Wolfe, M., Singh, U., Jagannathan, P., Pinsky, B. A., Boehm, A., Bhatt, A. S.  
2021
- **Guest Comment: Environmental Transmission and Control of COVID-19 Special Issue** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Jiang, G., Boehm, A. B., Li, X., Yao, M., Hu, L.  
2021; 55 (7): 4081-83
- **A Day at the Beach: Enabling Coastal Water Quality Prediction with High-Frequency Sampling and Data-Driven Models.** *Environmental science & technology*

- Searcy, R. T., Boehm, A. B.  
2021
- **A Day at the Beach: Enabling Coastal Water Quality Prediction with High-Frequency Sampling and Data-Driven Models** *Environmental Science & Technology*  
Searcy, R. T., Boehm, A. B.  
2021
  - **Effect of storage conditions on SARS-CoV-2 RNA quantification in wastewater solids.** *PeerJ*  
Simpson, A., Topol, A., White, B. J., Wolfe, M. K., Wigginton, K. R., Boehm, A. B.  
2021; 9: e11933
  - **Standardized preservation, extraction and quantification techniques for detection of fecal SARS-CoV-2 RNA.** *Nature communications*  
Natarajan, A., Han, A., Zlitni, S., Brooks, E. F., Vance, S. E., Wolfe, M., Singh, U., Jagannathan, P., Pinsky, B. A., Boehm, A., Bhatt, A. S.  
2021; 12 (1): 5753
  - **Sunlight Inactivation of Human Norovirus and Bacteriophage MS2 Using a Genome-Wide PCR-Based Approach and Enzyme Pretreatment.** *Environmental science & technology*  
Loeb, S. K., Jennings, W. C., Wigginton, K. R., Boehm, A. B.  
2021
  - **Publisher Correction: Standardized preservation, extraction and quantification techniques for detection of fecal SARS-CoV-2 RNA.** *Nature communications*  
Natarajan, A., Han, A., Zlitni, S., Brooks, E. F., Vance, S. E., Wolfe, M., Singh, U., Jagannathan, P., Pinsky, B. A., Boehm, A., Bhatt, A. S.  
2021; 12 (1): 7100
  - **The Beach Aquifer Microbiome: Research Gaps and Data Needs** *Frontiers in Environmental Science*  
Archana, A., Francis, C. A., Boehm, A. B.  
2021
  - **SARS-CoV-2 RNA in Wastewater Settled Solids Is Associated with COVID-19 Cases in a Large Urban Sewershed.** *Environmental science & technology*  
Graham, K. E., Loeb, S. K., Wolfe, M. K., Catoe, D., Sinnott-Armstrong, N., Kim, S., Yamahara, K. M., Sassoubre, L. M., Mendoza Grijalva, L. M., Roldan-Hernandez, L., Langenfeld, K., Wigginton, K. R., Boehm, et al  
2020
  - **Parachute Environmental Science and Engineering.** *Environmental science & technology*  
Roldan-Hernandez, L., Boehm, A. B., Mihelcic, J. R.  
2020; 54 (23): 14773–74
  - **CrAssphage for fecal source tracking in Chile: Covariation with norovirus, HF183, and bacterial indicators.** *Water research X*  
Jennings, W. C., Galvez-Arango, E., Prieto, A. L., Boehm, A. B.  
2020; 9: 100071
  - **Systematic Review and Meta-Analysis of the Persistence and Disinfection of Human Coronaviruses and Their Viral Surrogates in Water and Wastewater** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Silverman, A., Boehm, A. B.  
2020; 7 (8): 544–53
  - **Biochar-augmented biofilters to improve pollutant removal from stormwater - can they improve receiving water quality?** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*  
Boehm, A. B., Bell, C. D., Fitzgerald, N. M., Gallo, E., Higgins, C. P., Hogue, T. S., Luthy, R. G., Portmann, A. C., Ulrich, B. A., Wolfand, J. M.  
2020; 6 (6): 1520–37
  - **Environmental Engineers and Scientists Have Important Roles to Play in Stemming Outbreaks and Pandemics Caused by Enveloped Viruses.** *Environmental science & technology*  
Wigginton, K. R., Boehm, A. B.  
2020
  - **Ruminant Fecal Contamination of Drinking Water Introduced Post-Collection in Rural Kenyan Households.** *International journal of environmental research and public health*  
Hamzah, L., Boehm, A. B., Davis, J., Pickering, A. J., Wolfe, M., Mureithi, M., Harris, A.

2020; 17 (2)

- **Environmental DNA reveals seasonal shifts and potential interactions in a marine community.** *Nature communications*  
Djurhuus, A., Closek, C. J., Kelly, R. P., Pitz, K. J., Michisaki, R. P., Starks, H. A., Walz, K. R., Andruszkiewicz, E. A., Olesin, E., Hubbard, K., Montes, E., Otis, D., Muller-Karger, et al  
2020; 11 (1): 254
- **Systematic Review and Meta-Analysis of the Persistence and Disinfection of Human Coronaviruses and Their Viral Surrogates in Water and Wastewater.** *Environmental science & technology letters*  
Silverman, A. I., Boehm, A. B.  
2020; 7 (8): 544-553
- **Quantitative PCR assays to detect whales, rockfish, and common murre environmental DNA in marine water samples of the Northeastern Pacific.** *PloS one*  
Andruszkiewicz, E. A., Yamahara, K. M., Closek, C. J., Boehm, A. B.  
2020; 15 (12): e0242689
- **Application of molecular source tracking and mass balance approach to identify potential sources of fecal indicator bacteria in a tropical river.** *PloS one*  
Yamahara, K. M., Keymer, D. P., Layton, B. A., Walters, S. P., Thompson, R. S., Rosener, M. n., Boehm, A. B.  
2020; 15 (4): e0232054
- **What Environmental Factors Influence the Concentration of Fecal Indicator Bacteria in Groundwater? Insights from Explanatory Modeling in Uganda and Bangladesh.** *Environmental science & technology*  
Poulin, C. n., Peletz, R. n., Ercumen, A. n., Pickering, A. J., Marshall, K. n., Boehm, A. B., Khush, R. n., Delaire, C. n.  
2020
- **Participatory science for coastal water quality: Freshwater plume mapping and volunteer retention in a randomized informational intervention** *Environmental Science: Processes & Impacts*  
Jennings, W. C., et al  
2020
- **Wastewater-Based Epidemiology: Global Collaborative to Maximize Contributions in the Fight Against COVID-19.** *Environmental science & technology*  
Bivins, A. n., North, D. n., Ahmad, A. n., Ahmed, W. n., Alm, E. n., Been, F. n., Bhattacharya, P. n., Bijlsma, L. n., Boehm, A. B., Brown, J. n., Buttiglieri, G. n., Calabro, V. n., Carducci, et al  
2020
- **Contamination Scenario Matters when Using Viral and Bacterial Human-Associated Genetic Markers as Indicators of a Health Risk in Untreated Sewage-Impacted Recreational Waters.** *Environmental science & technology*  
Schoen, M. E., Boehm, A. B., Soller, J. n., Shanks, O. C.  
2020
- **Marine Vertebrate Biodiversity and Distribution Within the Central California Current Using Environmental DNA (eDNA) Metabarcoding and Ecosystem Surveys** *FRONTIERS IN MARINE SCIENCE*  
Closek, C. J., Santora, J. A., Starks, H. A., Schroeder, I. D., Andruszkiewicz, E. A., Sakuma, K. M., Bograd, S. J., Hazenv, E. L., Field, J. C., Boehm, A. B.  
2019; 6
- **Systematic review and meta-analysis of decay rates of waterborne mammalian viruses and coliphages in surface waters** *WATER RESEARCH*  
Boehm, A. B., Silverman, A. I., Schriewer, A., Goodwin, K.  
2019; 164
- **Risk-based water quality thresholds for coliphages in surface waters: effect of temperature and contamination aging.** *Environmental science. Processes & impacts*  
Boehm, A. B.  
2019
- **Biochar-augmented biofilters (BIOCHARGE) to improve pollutant removal from stormwater: Can they improve receiving water quality?**  
Boehm, A., Luthy, R., Wolfand, J., Higgins, C., Hogue, T., Fitzgerald, N., Kranner, B., Eisenstein, W., Ulrich, B.  
AMER CHEMICAL SOC.2019
- **Modeling Environmental DNA Transport in the Coastal Ocean Using Lagrangian Particle Tracking** *FRONTIERS IN MARINE SCIENCE*  
Andruszkiewicz, E. A., Koseff, J. R., Fringer, O. B., Ouellette, N. T., Lowe, A. B., Edwards, C. A., Boehm, A. B.

2019; 6

- **Systematic review and meta-analysis of decay rates of waterborne mammalian viruses and coliphages in surface waters.** *Water research*  
Boehm, A. B., Silverman, A. I., Schriever, A., Goodwin, K.  
2019; 164: 114898
- **Impacts of a changing earth on microbial dynamics and human health risks in the continuum between beach water and sand.** *Water research*  
Weiskerger, C. J., Brandao, J., Ahmed, W., Aslan, A., Avolio, L., Badgley, B. D., Boehm, A. B., Edge, T. A., Fleisher, J. M., Heaney, C. D., Jordao, L., Kinzelman, J. L., Klaus, et al  
2019; 162: 456–70
- **Correction for Pitol et al., "Transfer of Enteric Viruses Adenovirus and Coxsackievirus and Bacteriophage MS2 from Liquid to Human Skin".** *Applied and environmental microbiology*  
Pitol, A. K., Bischel, H. N., Boehm, A. B., Kohn, T., Julian, T. R.  
2019; 85 (11)
- **Comparison of analytical techniques to explain variability in stored drinking water quality and microbial hand contamination of female caregivers in Tanzania** *ENVIRONMENTAL SCIENCE-PROCESSES & IMPACTS*  
Harris, A. R., Pickering, A. J., Boehm, A. B., Mrisho, M., Davis, J.  
2019; 21 (5): 893–903
- **CHARACTERIZING ANTIBIOTIC RESISTANCES IN HUMANS AND DOMESTIC ANIMALS FROM RURAL AND URBAN BANGLADESH**  
Swarthout, J., Fuhrmeister, E. R., Harris, A. R., Gurley, E. S., Satter, S. M., Boehm, A. B., Pickering, A. J.  
*AMER SOC TROP MED & HYGIENE*.2019: 574
- **Predictors of Enteric Pathogens in the Domestic Environment from Human and Animal Sources in Rural Bangladesh.** *Environmental science & technology*  
Fuhrmeister, E. R., Ercumen, A. n., Pickering, A. J., Jeanis, K. M., Ahmed, M. n., Brown, S. n., Arnold, B. F., Hubbard, A. E., Alam, M. n., Sen, D. n., Islam, S. n., Kabir, M. H., Kwong, et al  
2019
- **Fecal indicator bacteria and virus removal in stormwater biofilters: Effects of biochar, media saturation, and field conditioning.** *PloS one*  
Kranner, B. P., Afroz, A. R., Fitzgerald, N. J., Boehm, A. B.  
2019; 14 (9): e0222719
- **Photoinactivation of uncultured, indigenous enterococci** *ENVIRONMENTAL SCIENCE-PROCESSES & IMPACTS*  
McClary, J. S., Ramos, N. A., Boehm, A. B.  
2019; 21 (1): 104–12
- **Comparison of analytical techniques to explain variability in stored drinking water quality and microbial hand contamination of female caregivers in Tanzania.** *Environmental science. Processes & impacts*  
Harris, A. R., Pickering, A. J., Boehm, A. B., Mrisho, M. n., Davis, J. n.  
2019
- **Photoinactivation of uncultured, indigenous enterococci.** *Environmental science. Processes & impacts*  
McClary, J. S., Ramos, N. A., Boehm, A. B.  
2018
- **Role of microbial cell properties on bacterial pathogen and coliphage removal in biochar-modified stormwater biofilters** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*  
Afroz, A., Pitol, A. K., Kitt, D., Boehm, A. B.  
2018; 4 (12): 2160–69
- **Transfer of Enteric Viruses Adenovirus and Coxsackievirus and Bacteriophage MS2 from Liquid to Human Skin** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Pitol, A. K., Bischel, H. N., Boehm, A. B., Kohn, T., Julian, T. R.  
2018; 84 (22)
- **Implementation of an automated beach water quality nowcast system at ten California oceanic beaches** *JOURNAL OF ENVIRONMENTAL MANAGEMENT*  
Searcy, R. T., Taggart, M., Gold, M., Boehm, A. B.  
2018; 223: 633–43

- **Can We Swim Yet? Systematic Review, Meta-Analysis, and Risk Assessment of Aging Sewage in Surface Waters** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Boehm, A. B., Graham, K. E., Jennings, W. C.  
2018; 52 (17): 9634–45
- **Can We Swim Yet? Systematic Review, Meta-Analysis, and Risk Assessment of Aging Sewage in Surface Waters.** *Environmental science & technology*  
Boehm, A. B., Graham, K. E., Jennings, W. C.  
2018
- **Sunlight-mediated inactivation of health-relevant microorganisms in water: a review of mechanisms and modeling approaches** *ENVIRONMENTAL SCIENCE-PROCESSES & IMPACTS*  
Nelson, K. L., Boehm, A. B., Davies-Colley, R. J., Dodd, M. C., Kohn, T., Linden, K. G., Liu, Y., Maraccini, P. A., McNeill, K., Mitch, W. A., Nguyen, T. H., Parker, K. M., Rodriguez, et al  
2018; 20 (8): 1089–1122
- **Sewage loading and microbial risk in urban waters of the Great Lakes** *ELEMENTA-SCIENCE OF THE ANTHROPOCENE*  
McLellan, S. L., Sauer, E. P., Corsi, S. R., Bootsma, M. J., Boehm, A. B., Spencer, S. K., Borchardt, M. A.  
2018; 6
- **Sewage loading and microbial risk in urban waters of the Great Lakes.** *Elementa (Washington, D.C.)*  
McLellan, S. L., Sauer, E. P., Corsi, S. R., Bootsma, M. J., Boehm, A. B., Spencer, S. K., Borchardt, M. A.  
2018; 6
- **Multiple Pathways to Bacterial Load Reduction by Stormwater Best Management Practices: Trade-Offs in Performance, Volume, and Treated Area** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Wolfand, J. M., Bell, C. D., Boehm, A. B., Hogue, T. S., Luthy, R. G.  
2018; 52 (11): 6370–79
- **Microbial community structure of sea spray aerosols at three California beaches.** *FEMS microbiology ecology*  
Graham, K. E., Prussin, A. J., Marr, L. C., Sassoubre, L. M., Boehm, A. B.  
2018; 94 (3)
- **Microbial community structure of sea spray aerosols at three California beaches** *FEMS MICROBIOLOGY ECOLOGY*  
Graham, K. E., Prussin, A. J., Marr, L. C., Sassoubre, L. M., Boehm, A. B.  
2018; 94 (3)
- **Frequent detection of a human fecal indicator in the urban ocean: environmental drivers and covariation with enterococci** *ENVIRONMENTAL SCIENCE-PROCESSES & IMPACTS*  
Jennings, W. C., Chern, E. C., O'Donohue, D., Kellogg, M. G., Boehm, A. B.  
2018; 20 (3): 480–92
- **Transcriptional Response of Staphylococcus aureus to Sunlight in Oxidic and Anoxic Conditions** *FRONTIERS IN MICROBIOLOGY*  
McClary, J. S., Boehm, A. B.  
2018; 9: 249
- **A human fecal contamination score for ranking recreational sites using the HF183/BacR287 quantitative real-time PCR method** *WATER RESEARCH*  
Cao, Y., Sivaganesan, M., Kely, C. A., Wang, D., Boehm, A. B., Griffith, J. F., Weisberg, S. B., Shanks, O. C.  
2018; 128: 148–56
- **Fecal Contamination on Produce from Wholesale and Retail Food Markets in Dhaka, Bangladesh** *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*  
Harris, A. R., Islam, M., Unicomb, L., Boehm, A. B., Luby, S., Davis, J., Pickering, A. J.  
2018; 98 (1): 287–94
- **Estimating the probability of illness due to swimming in recreational water with a mixture of human- and gull-associated microbial source tracking markers** *ENVIRONMENTAL SCIENCE-PROCESSES & IMPACTS*  
Brown, K. I., Graham, K. E., Soller, J. A., Boehm, A. B.  
2017; 19 (12): 1528–41
- **DETECTING AND ENUMERATING SOIL-TRANSMITTED HELMINTH EGGS IN SOIL: NEW METHOD DEVELOPMENT AND RESULTS FROM FIELD TESTING IN BANGLADESH AND KENYA**

Steinbaum, L., Kwong, L., Ercumen, A., Negash, M. S., Lovely, A. J., Njenga, S. M., Boehm, A. B., Pickering, A. J., Nelson, K. L.  
AMER SOC TROP MED & HYGIENE.2017: 185

- **Persistence of marine fish environmental DNA and the influence of sunlight** *PLOS ONE*  
Andruszkiewicz, E. A., Sassoubre, L. M., Boehm, A. B.  
2017; 12 (9): e0185043
- **Staphylococcus aureus Strain Newman Photoinactivation and Cellular Response to Sunlight Exposure** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
McClary, J. S., Sassoubre, L. M., Boehm, A. B.  
2017; 83 (17)
- **Environmental spread of NDM-1-producing multi-drug resistant bacteria in Dhaka, Bangladesh.** *Applied and environmental microbiology*  
Islam, M. A., Islam, M., Hasan, R., Hossain, M. I., Nabi, A., Rahman, M., Goessens, W. H., Endtz, H. P., Boehm, A. B., Faruque, S. M.  
2017
- **Effects of submerged zone, media aging, and antecedent dry period on the performance of biochar-amended biofilters in removing fecal indicators and nutrients from natural stormwater** *ECOLOGICAL ENGINEERING*  
Afrooz, A. R., Boehm, A. B.  
2017; 102: 320-330
- **Biomonitoring of marine vertebrates in Monterey Bay using eDNA metabarcoding** *PLOS ONE*  
Andruszkiewicz, E. A., Starks, H. A., Chavez, F. P., Sassoubre, L. M., Block, B. A., Boehm, A. B.  
2017; 12 (4)
- **Detecting and enumerating soil-transmitted helminth eggs in soil: New method development and results from field testing in Kenya and Bangladesh.** *PLoS neglected tropical diseases*  
Steinbaum, L., Kwong, L. H., Ercumen, A., Negash, M. S., Lovely, A. J., Njenga, S. M., Boehm, A. B., Pickering, A. J., Nelson, K. L.  
2017; 11 (4)
- **Occurrence of norovirus in raw sewage - A systematic literature review and meta-analysis.** *Water research*  
Eftim, S. E., Hong, T., Soller, J., Boehm, A., Warren, I., Ichida, A., Nappier, S. P.  
2017; 111: 366-374
- **Risk-Based Threshold of Gull-Associated Fecal Marker Concentrations for Recreational Water** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Brown, K. I., Graham, K. E., Boehm, A. B.  
2017; 4 (2): 44-48
- **Oceans in Peril: Grand Challenges in Applied Water Quality Research for the 21st Century** *ENVIRONMENTAL ENGINEERING SCIENCE*  
Boehm, A. B., Ismail, N. S., Sassoubre, L. M., Andruszkiewicz, E. A.  
2017; 34 (1): 3-15
- **Evaluation of filtration and DNA extraction methods for environmental DNA biodiversity assessments across multiple trophic levels** *FRONTIERS IN MARINE SCIENCE*  
Djurhuus, A., Port, J., Closek, C. J., Yamahara, K. M., Romero-Maraccini, O., Walz, K. R., Goldsmith, D. B., Michisaki, R., Boehm, A. B., Breitbart, M., Chavez, F. P.  
2017: 314
- **Decay of sewage-sourced microbial source tracking markers and fecal indicator bacteria in marine waters** *WATER RESEARCH*  
Mattioli, M. C., Sassoubre, L. M., Russell, T. L., Boehm, A. B.  
2017; 108: 106-114
- **Transport of Fecal Indicators from Beach Sand to the Surf Zone by Recirculating Seawater: Laboratory Experiments and Numerical Modeling** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Brown, K. I., Boehm, A. B.  
2016; 50 (23): 12840-12847
- **Rapid water disinfection using vertically aligned MoS<sub>2</sub> nanofilms and visible light** *NATURE NANOTECHNOLOGY*  
Liu, C., Kong, D., Hsu, P., Yuan, H., Lee, H., Liu, Y., Wang, H., Wang, S., Yan, K., Lin, D., Maraccini, P. A., Parker, K. M., Boehm, et al  
2016; 11 (12): 1098-1104

- **Escherichia coli Removal in Biochar-Modified Biofilters: Effects of Biofilm** *PLOS ONE*  
Afrooz, A. R., Boehm, A. B.  
2016; 11 (12)
- **Occurrence of Host-Associated Fecal Markers on Child Hands, Household Soil, and Drinking Water in Rural Bangladeshi Households.** *Environmental science & technology letters*  
Boehm, A. B., Wang, D., Ercumen, A., Shea, M., Harris, A. R., Shanks, O. C., Kelty, C., Ahmed, A., Mahmud, Z. H., Arnold, B. F., Chase, C., Kullmann, C., Colford, et al  
2016; 3 (11): 393-398
- **Occurrence of Host-Associated Fecal Markers on Child Hands, Household Soil, and Drinking Water in Rural Bangladeshi Households** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Boehm, A. B., Wang, D., Ercumen, A., Shea, M., Harris, A. R., Shanks, O. C., Kelty, C., Ahmed, A., Mahmud, Z. H., Arnold, B. F., Chase, C., Kullmann, C., Colford, et al  
2016; 3 (11): 393-398
- **Escherichia coli Reduction by Bivalves in an Impaired River Impacted by Agricultural Land Use.** *Environmental science & technology*  
Ismail, N. S., Tommerdahl, J. P., Boehm, A. B., Luthy, R. G.  
2016; 50 (20): 11025-11033
- **Quantification of Environmental DNA (eDNA) Shedding and Decay Rates for Three Marine Fish** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Sassoubre, L. M., Yamahara, K. M., Gardner, L. D., Block, B. A., Boehm, A. B.  
2016; 50 (19): 10456-10464
- **Rapid water disinfection using vertically aligned MoS2 nanofilms and visible light.** *Nature nanotechnology*  
Liu, C., Kong, D., Hsu, P., Yuan, H., Lee, H., Liu, Y., Wang, H., Wang, S., Yan, K., Lin, D., Maraccini, P. A., Parker, K. M., Boehm, et al  
2016
- **Exogenous indirect photoinactivation of bacterial pathogens and indicators in water with natural and synthetic photosensitizers in simulated sunlight with reduced UVB.** *Journal of applied microbiology*  
Maraccini, P. A., Wenk, J., Boehm, A. B.  
2016; 121 (2): 587-597
- **Soil-Transmitted Helminth Eggs Are Present in Soil at Multiple Locations within Households in Rural Kenya** *PLOS ONE*  
Steinbaum, L., Njenga, S. M., Kihara, J., Boehm, A. B., Davis, J., Null, C., Pickering, A. J.  
2016; 11 (6)
- **Water quality criteria for an acidifying ocean: Challenges and opportunities for improvement** *OCEAN & COASTAL MANAGEMENT*  
Weisberg, S. B., Bednarsek, N., Feely, R. A., Chan, F., Boehm, A. B., Sutula, M., Ruesink, J. L., Hales, B., Largier, J. L., Newton, J. A.  
2016; 126: 31-41
- **Photoinactivation of Eight Health-Relevant Bacterial Species: Determining the Importance of the Exogenous Indirect Mechanism** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Maraccini, P. A., Wenk, J., Boehm, A. B.  
2016; 50 (10): 5050-5059
- **Solar Inactivation of Enterococci and Escherichia coli in Natural Waters: Effects of Water Absorbance and Depth** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Maraccini, P. A., Mattioli, M. C., Sassoubre, L. M., Cao, Y., Griffith, J. F., Ervin, J. S., Van De Werfhorst, L. C., Boehm, A. B.  
2016; 50 (10): 5068-5076
- **Ruminants Contribute Fecal Contamination to the Urban Household Environment in Dhaka, Bangladesh** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Harris, A. R., Pickering, A. J., Harris, M., Doza, S., Islam, M. S., Unicomb, L., Luby, S., Davis, J., Boehm, A. B.  
2016; 50 (9): 4642-4649
- **Absolute Quantification of Enterococcal 23S rRNA Gene Using Digital PCR** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Wang, D., Yamahara, K. M., Cao, Y., Boehm, A. B.  
2016; 50 (7): 3399-3408
- **Transport of enterococci and F+ coliphage through the saturated zone of the beach aquifer.** *Journal of water and health*  
de Sieyes, N. R., Russell, T. L., Brown, K. I., Mohanty, S. K., Boehm, A. B.



2016; 14 (1): 26-38

- **Effect of weathering on mobilization of biochar particles and bacterial removal in a stormwater biofilter.** *Water research*  
Mohanty, S. K., Boehm, A. B.  
2015; 85: 208-215
- **Sunlight inactivation of fecal indicator bacteria in open-water unit process treatment wetlands: Modeling endogenous and exogenous inactivation rates** *WATER RESEARCH*  
Nguyen, M. T., Jasper, J. T., Boehm, A. B., Nelson, K. L.  
2015; 83: 282-292
- **Comparative decay of *Catelicoccus marimmalium* and enterococci in beach sand and seawater.** *Water research*  
Brown, K. I., Boehm, A. B.  
2015; 83: 377-84
- **Comparative decay of *Catelicoccus marimmalium* and enterococci in beach sand and seawater** *WATER RESEARCH*  
Brown, K. I., Boehm, A. B.  
2015; 83: 377-384
- **Sunlight inactivation of fecal indicator bacteria in open-water unit process treatment wetlands: Modeling endogenous and exogenous inactivation rates.** *Water research*  
Nguyen, M. T., Jasper, J. T., Boehm, A. B., Nelson, K. L.  
2015; 83: 282-292
- **Human-Associated Fecal Quantitative Polymerase Chain Reaction Measurements and Simulated Risk of Gastrointestinal Illness in Recreational Waters Contaminated with Raw Sewage** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Boehm, A. B., Soller, J. A., Shanks, O. C.  
2015; 2 (10): 270-275
- **SOIL-TRANSMITTED HELMINTH CONTAMINATION OF SOIL IN RURAL KENYAN HOUSEHOLDS**  
Steinbaum, L. E., Nelson, K., Ercumen, A., Kwong, L., Kihara, J., Njenga, S., Boehm, A., Davis, J., Null, C., Pickering, A.  
*AMER SOC TROP MED & HYGIENE*.2015: 9
- **Quantification of Human Norovirus GII on Hands of Mothers with Children Under the Age of Five Years in Bagamoyo, Tanzania.** *The American journal of tropical medicine and hygiene*  
Mattioli, M. C., Davis, J., Mrisho, M., Boehm, A. B.  
2015; 93 (3): 478-484
- **Simultaneous monitoring of faecal indicators and harmful algae using an in-situ autonomous sensor.** *Letters in applied microbiology*  
Yamahara, K. M., Demir-Hilton, E., Preston, C. M., Marin, R., Pargett, D., Roman, B., JENSEN, S., Birch, J. M., Boehm, A. B., Scholin, C. A.  
2015; 61 (2): 130-138
- **Ocean Acidification Science Needs for Natural Resource Managers of the North American West Coast** *OCEANOGRAPHY*  
Boehm, A. B., Jacobson, M. Z., O'Donnell, M. J., Sutula, M., Wakefield, W. W., Weisberg, S. B., Whiteman, E.  
2015; 28 (2): 170-181
- **Growth-dependent photoinactivation kinetics of *Enterococcus faecalis*** *JOURNAL OF APPLIED MICROBIOLOGY*  
Maraccini, P. A., Wang, D., McClary, J. S., Boehm, A. B.  
2015; 118 (5): 1226-1237
- **Temporal stability of the microbial community in sewage-polluted seawater exposed to natural sunlight cycles and marine microbiota.** *Applied and environmental microbiology*  
Sassoubre, L. M., Yamahara, K. M., Boehm, A. B.  
2015; 81 (6): 2107-2116
- **Improvement of Urban Lake Water Quality by Removal of *Escherichia coli* through the Action of the Bivalve *Anodonta californiensis*.** *Environmental science & technology*  
Ismail, N. S., Dodd, H., Sassoubre, L. M., Horne, A. J., Boehm, A. B., Luthy, R. G.  
2015; 49 (3): 1664-1672
- **Hand-to-Mouth Contacts Result in Greater Ingestion of Feces than Dietary Water Consumption in Tanzania: A Quantitative Fecal Exposure Assessment Model.** *Environmental science & technology*



Mattioli, M. C., Davis, J., Boehm, A. B.

2015; 49 (3): 1912-1920

- **Sunny with a chance of gastroenteritis: predicting swimmer risk at california beaches.** *Environmental science & technology*  
Thoe, W., Gold, M., Griesbach, A., Grimmer, M., Taggart, M. L., Boehm, A. B.  
2015; 49 (1): 423-431
- **Mobilization of Microspheres from a Fractured Soil during Intermittent Infiltration Events** *VADOSE ZONE JOURNAL*  
Mohanty, S. K., Bulicek, M. C., Metge, D. W., Harvey, R. W., Ryan, J. N., Boehm, A. B.  
2015; 14 (1)
- **Predicting water quality at Santa Monica Beach: Evaluation of five different models for public notification of unsafe swimming conditions** *WATER RESEARCH*  
Thoe, W., Gold, M., Griesbach, A., Grimmer, M., Taggart, M. L., Boehm, A. B.  
2014; 67: 105-117
- **Human health risk implications of multiple sources of faecal indicator bacteria in a recreational waterbody** *WATER RESEARCH*  
Soller, J. A., Schoen, M. E., Varghese, A., Ichida, A. M., Boehm, A. B., Eftim, S., Ashbolt, N. J., Ravenscroft, J. E.  
2014; 66: 254-264
- **Static electricity powered copper oxide nanowire microbicidal electroporation for water disinfection.** *Nano letters*  
Liu, C., Xie, X., Zhao, W., Yao, J., Kong, D., Boehm, A. B., Cui, Y.  
2014; 14 (10): 5603-5608
- **Escherichia coli Removal in Biochar-Augmented Biofilter: Effect of Infiltration Rate, Initial Bacterial Concentration, Biochar Particle Size, and Presence of Compost** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Mohanty, S. K., Boehm, A. B.  
2014; 48 (19): 11535-11542
- **Escherichia coli removal in biochar-augmented biofilter: effect of infiltration rate, initial bacterial concentration, biochar particle size, and presence of compost.** *Environmental science & technology*  
Mohanty, S. K., Boehm, A. B.  
2014; 48 (19): 11535-11542
- **Static Electricity Powered Copper Oxide Nanowire Microbicidal Electroporation for Water Disinfection** *NANO LETTERS*  
Liu, C., Xie, X., Zhao, W., Yao, J., Kong, D., Boehm, A. B., Cui, Y.  
2014; 14 (10): 5603-5608
- **Efficacy of biochar to remove Escherichia coli from stormwater under steady and intermittent flow.** *Water research*  
Mohanty, S. K., Cantrell, K. B., Nelson, K. L., Boehm, A. B.  
2014; 61: 288-296
- **Effect of submarine groundwater discharge on bacterial indicators and swimmer health at Avalon Beach, CA, USA.** *Water research*  
Yau, V. M., Schiff, K. C., Arnold, B. F., Griffith, J. F., Gruber, J. S., Wright, C. C., Wade, T. J., Burns, S., Hayes, J. M., Mcgee, C., Gold, M., Cao, Y., Boehm, et al  
2014; 59: 23-36
- **Diversity and Transport of Microorganisms in Intertidal Sands of the California Coast** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Boehm, A. B., Yamahara, K. M., Sassoubre, L. M.  
2014; 80 (13): 3943-3951
- **Diversity and transport of microorganisms in intertidal sands of the California coast.** *Applied and environmental microbiology*  
Boehm, A. B., Yamahara, K. M., Sassoubre, L. M.  
2014; 80 (13): 3943-3951
- **Hand bacterial communities vary across two different human populations.** *Microbiology (Reading, England)*  
Hospodsky, D., Pickering, A. J., Julian, T. R., Miller, D., Gorthala, S., Boehm, A. B., Peccia, J.  
2014; 160: 1144-1152
- **Mechanisms for Photoinactivation of Enterococcus faecalis in Seawater.** *Applied and environmental microbiology*  
Sassoubre, L. M., Nelson, K. L., Boehm, A. B.  
2014; 80 (9): 2964-?

- **Detection limits and cost comparisons of human- and gull-associated conventional and quantitative PCR assays in artificial and environmental waters.** *Journal of environmental management*  
Riedel, T. E., Zimmer-Faust, A. G., Thulsiraj, V., Madi, T., Hanley, K. T., Ebentier, D. L., Byappanahalli, M., Layton, B., Raith, M., Boehm, A. B., Griffith, J. F., Holden, P. A., Shanks, et al  
2014; 136: 112-120
- **Impacts of Beach Wrack Removal via Grooming on Surf Zone Water Quality.** *Environmental science & technology*  
Russell, T. L., Sassoubre, L. M., Zhou, C., French-Owen, D., Hassaballah, A., Boehm, A. B.  
2014; 48 (4): 2203-2211
- **Transcriptional response of *Enterococcus faecalis* to sunlight.** *Journal of photochemistry and photobiology. B, Biology*  
Sassoubre, L. M., Ramsey, M. M., Gilmore, M. S., Boehm, A. B.  
2014; 130: 349-356
- **Enteric Pathogens in Stored Drinking Water and on Caregiver's Hands in Tanzanian Households with and without Reported Cases of Child Diarrhea** *PLOS ONE*  
Mattioli, M. C., Boehm, A. B., Davis, J., Harris, A. R., Mrisho, M., Pickering, A. J.  
2014; 9 (1)
- **Enteric pathogens in stored drinking water and on caregiver's hands in Tanzanian households with and without reported cases of child diarrhea.** *PLoS One*  
Mattioli, M. C., Boehm, A. B., Davis, J., Harris, A. R., Mrisho, M., Pickering, A. J.  
2014; 9: e84939
- **Enteric pathogens in stored drinking water and on caregiver's hands in Tanzanian households with and without reported cases of child diarrhea.** *PloS one*  
Mattioli, M. C., Boehm, A. B., Davis, J., Harris, A. R., Mrisho, M., Pickering, A. J.  
2014; 9 (1)
- **New Performance Metrics for Quantitative Polymerase Chain Reaction-Based Microbial Source Tracking Methods** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*  
Wang, D., Green, H. C., Shanks, O. C., Boehm, A. B.  
2014; 1 (1): 20-25
- **New performance metrics for quantitative PCR microbial source tracking methods.** *Environmental Science & Technology Letters*  
Wang, D., Green, H., Shanks, O., Boehm, A., B.  
2014; 1: 20-25
- **Simple Estimate of Entrainment Rate of Pollutants from a Coastal Discharge into the Surf Zone (vol 47, pg 11554, 2013)** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Wong, S. C., Monismith, S. G., Boehm, A. B.  
2013; 47 (22): 13208
- **Performance of forty-one microbial source tracking methods: A twenty-seven lab evaluation study.** *Water research*  
Boehm, A. B., Van De Werfhorst, L. C., Griffith, J. F., Holden, P. A., Jay, J. A., Shanks, O. C., Wang, D., Weisberg, S. B.  
2013; 47 (18): 6812-6828
- **Evaluation of the repeatability and reproducibility of a suite of qPCR-based microbial source tracking methods** *WATER RESEARCH*  
Ebentier, D. L., Hanley, K. T., Cao, Y., Badgley, B. D., Boehm, A. B., Ervin, J. S., Goodwin, K. D., Gourmelon, M., Griffith, J. F., Holden, P. A., Kelty, C. A., Lozach, S., Mcgee, et al  
2013; 47 (18): 6839-6848
- **Performance of viruses and bacteriophages for fecal source determination in a multi-laboratory, comparative study** *WATER RESEARCH*  
Harwood, V. J., Boehm, A. B., Sassoubre, L. M., Vijayavel, K., Stewart, J. R., Fong, T., Caprais, M., Converse, R. R., Diston, D., Ebdon, J., Fuhrman, J. A., Gourmelon, M., Gentry-Shields, et al  
2013; 47 (18): 6929-6943
- **Comparison of PCR and quantitative real-time PCR methods for the characterization of ruminant and cattle fecal pollution sources** *WATER RESEARCH*  
Raith, M. R., Kelty, C. A., Griffith, J. F., Schriewer, A., Wuertz, S., Mieszkina, S., Gourmelon, M., Reischer, G. H., Farnleitner, A. H., Ervin, J. S., Holden, P. A., Ebentier, D. L., Jay, et al  
2013; 47 (18): 6921-6928

- **Multi-laboratory evaluations of the performance of *Catellibacoccus marimammalium* PCR assays developed to target gull fecal sources** *WATER RESEARCH*  
Sinigalliano, C. D., Ervin, J. S., Van De Werfhorst, L. C., Badgley, B. D., Balleste, E., Bartkowiak, J., Boehm, A. B., Byappanahalli, M., Goodwin, K. D., Gourmelon, M., Griffith, J., Holden, P. A., Jay, et al  
2013; 47 (18): 6883-6896
- **Recommendations following a multi-laboratory comparison of microbial source tracking methods** *WATER RESEARCH*  
Stewart, J. R., Boehm, A. B., Dubinsky, E. A., Fong, T., Goodwin, K. D., Griffith, J. F., Noble, R. T., Shanks, O. C., Vijayavel, K., Weisberg, S. B.  
2013; 47 (18): 6829-6838
- **Enterococcus and Escherichia coli fecal source apportionment with microbial source tracking genetic markers - Is it feasible?** *Water research*  
Wang, D., Farnleitner, A. H., Field, K. G., Green, H. C., Shanks, O. C., Boehm, A. B.  
2013; 47 (18): 6849-6861
- **Performance of human fecal anaerobe-associated PCR-based assays in a multi-laboratory method evaluation study** *WATER RESEARCH*  
Layton, B. A., Cao, Y., Ebentier, D. L., Hanley, K., Balleste, E., Brandao, J., Byappanahalli, M., Converse, R., Farnleitner, A. H., Gentry-Shields, J., Gidley, M. L., Gourmelon, M., Lee, et al  
2013; 47 (18): 6897-6908
- **Characterization of fecal concentrations in human and other animal sources by physical, culture-based, and quantitative real-time PCR methods** *WATER RESEARCH*  
Ervin, J. S., Russell, T. L., Layton, B. A., Yamahara, K. M., Wang, D., Sassoubre, L. M., Cao, Y., Kelty, C. A., Sivaganesan, M., Boehm, A. B., Holden, P. A., Weisberg, S. B., Shanks, et al  
2013; 47 (18): 6873-6882
- **Simple estimate of entrainment rate of pollutants from a coastal discharge into the surf zone.** *Environmental science & technology*  
Wong, S. H., Monismith, S. G., Boehm, A. B.  
2013; 47 (20): 11554-11561
- **Engineering Solutions to Improve the Removal of Fecal Indicator Bacteria by Bioinfiltration Systems during Intermittent Flow of Stormwater.** *Environmental science & technology*  
Mohanty, S. K., Torkelson, A. A., Dodd, H., Nelson, K. L., Boehm, A. B.  
2013; 47 (19): 10791-10798
- **A Coupled Modeling and Molecular Biology Approach to Microbial Source Tracking at Cowell Beach, Santa Cruz, CA, United States.** *Environmental science & technology*  
Russell, T. L., Sassoubre, L. M., Wang, D., Masuda, S., Chen, H., Soetjijto, C., Hassaballah, A., Boehm, A. B.  
2013; 47 (18): 10231-10239
- **A coupled modeling and molecular biology approach to microbial source tracking at Cowell Beach, Santa Cruz, CA, United States.** *Environmental science & technology*  
Russell, T. L., Sassoubre, L. M., Wang, D., Masuda, S., Chen, H., Soetjijto, C., Hassaballah, A., Boehm, A. B.  
2013; 47 (18): 10231-10239
- **Conducting nanosponge electroporation for affordable and high-efficiency disinfection of bacteria and viruses in water.** *Nano letters*  
Liu, C., Xie, X., Zhao, W., Liu, N., Maraccini, P. A., Sassoubre, L. M., Boehm, A. B., Cui, Y.  
2013; 13 (9): 4288-4293
- **Mechanisms of post-supply contamination of drinking water in Bagamoyo, Tanzania.** *Journal of water and health*  
Harris, A. R., Davis, J., Boehm, A. B.  
2013; 11 (3): 543-554
- **Enterococcus spp on fomites and hands indicate increased risk of respiratory illness in child care centers** *AMERICAN JOURNAL OF INFECTION CONTROL*  
Julian, T. R., Pickering, A. J., Leckie, J. O., Boehm, A. B.  
2013; 41 (8): 728-733
- **Engineered Infiltration Systems for Urban Stormwater Reclamation** *ENVIRONMENTAL ENGINEERING SCIENCE*  
Grebel, J. E., Mohanty, S. K., Torkelson, A. A., Boehm, A. B., Higgins, C. P., Maxwell, R. M., Nelson, K. L., Sedlak, D. L.  
2013; 30 (8): 437-454
- **Salmonella enterica Diversity in Central Californian Coastal Waterways.** *Applied and environmental microbiology*

- Walters, S. P., González-Escalona, N., Son, I., Melka, D. C., Sassoubre, L. M., Boehm, A. B.  
2013; 79 (14): 4199-4209
- **Sunlight Inactivation of Human Viruses and Bacteriophages in Coastal Waters Containing Natural Photosensitizers** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Silverman, A. I., Peterson, B. M., Boehm, A. B., McNeill, K., Nelson, K. L.  
2013; 47 (4): 1870-1878
  - **Hands and Water as Vectors of Diarrhea! Pathogens in Bagannoyo, Tanzania** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Mattioli, M. C., Pickering, A. J., Gilsdorf, R. J., Davis, J., Boehm, A. B.  
2013; 47 (1): 355-363
  - **Mechanisms of post-supply contamination of drinking water in Bagamoyo Tanzania.** *Journal of Water & Health*  
Harris, A., R., Davis, J., Boehm, A., B.  
2013; 3 (11): 543-54
  - **Recommendations following a multi-laboratory comparison of microbial source tracking methods.** *Water Research.*  
Stewart, J., Boehm, A., B, Dubinsky, E., A., Fong, T., T., Goodwin, K., D., Griffith, J., F.  
2013; 47: 6829-6838
  - **Performance of Viruses and Bacteriophages for Fecal Source Determination in a Multi-Laboratory, Comparative Study.** *Water Research.*  
Harwood, V., J., Boehm, A., B., Sassoubre, L., M., Kannappan, V., Stewart, J., R., Fong, T., T.  
2013; 47: 6929-6943
  - **Multi-Laboratory Evaluations of the Performance of Catellicoccus marimamm\ alium PCR Assays Developed to Target Gull Fecal Sources** *Water Research.*  
Sinigalliano, C., D., Ervin, J., Van De Werfhorst, L., Badgley, B., Balleste, E., Bartkowiak, J., Boehm, A.  
2013; 47: 6883-6896
  - **Fecal indicator bacteria on fomites and hands are associated with increased risk of respiratory illness in day care centers.** *American Journal of Infection Control*  
Julian, T., R., Pickering, A., J., Leckie, J., O., Boehm., A., B.  
2013; 41: 728-733
  - **Evaluation of the repeatability and reproducibility of a suite of qPCR-based microbial source tracking methods.** *Water Research.*  
Ebentier, D., L., Hanley, K., T., Cao, Y., Badgley, B., D., Boehm, A., B., Ervin, J., S.  
2013; 47: 6839-6848
  - **Characterization of fecal concentrations in human and other animal sources by physical, culture, and quantitative real-time PCR methods.** *Water Research.*  
Ervin, J., S., Russell, T., L., Layton, B., A., Yamahara, K., M., Wang, D., Sassoubre, L., M., Boehm, A.  
2013; 47: 6873-6882
  - **A simple estimate of entrainment rate of pollutants from a coastal discharge into the surf zone.** *Environmental Science & Technology*  
Wong, S.H., C., Monismith, S., G., Boehm, A., B.  
2013; 47: 11554-11561
  - **Performance of human fecal-associated PCR-based assays: an international source identificaiton method evaluation.** *Water Research.*  
Layton, B., Cao, Y., Ebentier, D., L., Hanley, K., T., Van De Werfhorst, L., Wang, D., Boehm, A.  
2013; 47: 6897-6908
  - **Enterococcus and Escherichia coli fecal source apportionment with microbial source tracking genetic markers -- Is it feasible?** *Water Research.*  
Wang, D., Farnleitner, A., H., Field, K., G., Green, H., C., Shanks, O., C., Boehm., A., B.  
2013; 47: 6849-6861
  - **Comparison of PCR and quantitative real-time PCR methods for the characterization of ruminant and cattle fecal pollution sources.** *Water Research.*  
Raith, M., Kelty, C., A., Griffith, J., F., Schriewer, A., Wuertz, S., Mieszkina, S., Boehm, A.  
2013; 47: 6921-6928
  - **Mechanisms for Photoinactivation of Enterococcus faecalis in Seawater** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Sassoubre, L. M., Nelson, K. L., Boehm, A. B.

2012; 78 (21): 7776-7785

- **Comparison of enterovirus and adenovirus concentration and enumeration methods in seawater from Southern California, USA and Baja Malibu, Mexico** *JOURNAL OF WATER AND HEALTH*  
Sassoubre, L. M., Love, D. C., Silverman, A. I., Nelson, K. L., Boehm, A. B.  
2012; 10 (3): 419-430
- **Mobilization and Transport of Naturally Occurring Enterococci in Beach Sands Subject to Transient Infiltration of Seawater** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Russell, T. L., Yamahara, K. M., Boehm, A. B.  
2012; 46 (11): 5988-5996
- **Fecal Contamination and Diarrheal Pathogens on Surfaces and in Soils among Tanzanian Households with and without Improved Sanitation** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Pickering, A. J., Julian, T. R., Marks, S. J., Mattioli, M. C., Boehm, A. B., Schwab, K. J., Davis, J.  
2012; 46 (11): 5736-5743
- **Occurrence and Persistence of Bacterial Pathogens and Indicator Organisms in Beach Sand along the California Coast** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Yamahara, K. M., Sassoubre, L. M., Goodwin, K. D., Boehm, A. B.  
2012; 78 (6): 1733-1745
- **Coupled physical, chemical, and microbiological measurements suggest a connection between internal waves and surf zone water quality in the Southern California Bight** *CONTINENTAL SHELF RESEARCH*  
Wong, S. H., Santoro, A. E., Nidzicko, N. J., Hench, J. L., Boehm, A. B.  
2012; 34: 64-78
- **Solar inactivation of four Salmonella serovars in fresh and marine waters** *JOURNAL OF WATER AND HEALTH*  
Boehm, A. B., Soetjijto, C., Wang, D.  
2012; 10 (4): 504-510
- **Marine and Freshwater Fecal Indicators and Source Identification.** *Encyclopedia of Sustainability Science and Technology*  
McLellan, S., L., Boehm, A., B., Shanks, O., C.  
edited by Grimes, D., J.  
2012
- **Photoinactivation mechanisms of Enterococcus faecalis in seawater.** *Applied and Environmental Microbiology*  
Sassoubre, L., M., Nelson, K., L., Boehm., A., B.  
2012; 78: 7776-7785
- **Diurnal Variation in Enterococcus Species Composition in Polluted Ocean Water and a Potential Role for the Enterococcal Carotenoid in Protection against Photoinactivation** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Maraccini, P. A., Ferguson, D. M., Boehm, A. B.  
2012; 78 (2): 305-310
- **Quantitative PCR-based detection of pathogenic Leptospira in Hawai'ian coastal streams** *JOURNAL OF WATER AND HEALTH*  
Viau, E. J., Boehm, A. B.  
2011; 9 (4): 637-646
- **Effective detection of human noroviruses in Hawaiian waters using enhanced RT-PCR methods** *WATER RESEARCH*  
Tong, H., Connell, C., Boehm, A. B., Lu, Y.  
2011; 45 (18): 5837-5848
- **Comparison of Surface Sampling Methods for Virus Recovery from Fomites** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Julian, T. R., Tamayo, F. J., Leckie, J. O., Boehm, A. B.  
2011; 77 (19): 6918-6925
- **Swimmer Risk of Gastrointestinal Illness from Exposure to Tropical Coastal Waters Impacted by Terrestrial Dry-Weather Runoff** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Viau, E. J., Lee, D., Boehm, A. B.  
2011; 45 (17): 7158-7165

- **Dissolved Inorganic Nitrogen, Soluble Reactive Phosphorous, and Microbial Pollutant Loading from Tropical Rural Watersheds in Hawai'i to the Coastal Ocean During Non-Storm Conditions** *ESTUARIES AND COASTS*  
Boehm, A. B., Yamahara, K. M., Walters, S. P., Layton, B. A., Keymer, D. P., Thompson, R. S., Knee, K. L., Rosener, M.  
2011; 34 (5): 925-936
- **Using radium isotopes to characterize water ages and coastal mixing rates: A sensitivity analysis** *LIMNOLOGY AND OCEANOGRAPHY-METHODS*  
Knee, K. L., Garcia-Solsona, E., Garcia-Orellana, J., Boehm, A. B., Paytan, A.  
2011; 9: 380-395
- **Sources and fate of Salmonella and fecal indicator bacteria in an urban creek** *JOURNAL OF ENVIRONMENTAL MONITORING*  
Sassoubre, L. M., Walters, S. P., Russell, T. L., Boehm, A. B.  
2011; 13 (8): 2206-2212
- **Wrack promotes the persistence of fecal indicator bacteria in marine sands and seawater** *FEMS MICROBIOLOGY ECOLOGY*  
Imamura, G. J., Thompson, R. S., Boehm, A. B., Jay, J. A.  
2011; 77 (1): 40-49
- **Bacterial pathogens in Hawaiian coastal streams-Associations with fecal indicators, land cover, and water quality** *WATER RESEARCH*  
Viau, E. J., Goodwin, K. D., Yamahara, K. M., Layton, B. A., Sassoubre, L. M., Burns, S. L., Tong, H., Wong, S. H., Lu, Y., Boehm, A. B.  
2011; 45 (11): 3279-3290
- **Submarine Groundwater Discharge to a High-Energy Surf Zone at Stinson Beach, California, Estimated Using Radium Isotopes** *ESTUARIES AND COASTS*  
de Sieyes, N. R., Yamahara, K. M., Paytan, A., Boehm, A. B.  
2011; 34 (2): 256-268
- **Impact of urbanization and agriculture on the occurrence of bacterial pathogens and stx genes in coastal waterbodies of central California** *WATER RESEARCH*  
Walters, S. P., Thebo, A. L., Boehm, A. B.  
2011; 45 (4): 1752-1762
- **The Effects of Informational Interventions on Household Water Management, Hygiene Behaviors, Stored Drinking Water Quality, and Hand Contamination in Peri-Urban Tanzania** *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*  
Davis, J., Pickering, A. J., Rogers, K., Mamuya, S., Boehm, A. B.  
2011; 84 (2): 184-191
- **Bacterial hand contamination among Tanzanian mothers varies temporally and following household activities** *TROPICAL MEDICINE & INTERNATIONAL HEALTH*  
Pickering, A. J., Julian, T. R., Mamuya, S., Boehm, A. B., Davis, J.  
2011; 16 (2): 233-239
- **Recombination Shapes the Structure of an Environmental Vibrio cholerae Population** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Keymer, D. P., Boehm, A. B.  
2011; 77 (2): 537-544
- **CLASSICAL AND MOLECULAR METHODS TO MEASURE FECAL BACTERIA** *FECAL BACTERIA*  
Edge, T. A., Boehm, A. B., Sadowsky, M. J., Whitman, R. L.  
2011: 241-73
- **MODELING FATE AND TRANSPORT OF FECAL BACTERIA IN SURFACE WATER** *FECAL BACTERIA*  
Nevers, M. B., Boehm, A. B., Sadowsky, M. J., Whitman, R. L.  
2011: 165-88
- **Beaches and Coastal Environments** *MICROBIAL SOURCE TRACKING: METHODS, APPLICATIONS, AND CASE STUDIES*  
Solo-Gabriele, H. M., Boehm, A. B., Scott, T. M., Sinigalliano, C. D., Hagedorn, C., Blanch, A. R., Harwood, V. J.  
2011: 451-83
- **Case Studies: Beach Environments.** *Microbial Source Tracking: Methods, Applications, and Case Studies*  
Solo-Gabriele, H., M., Boehm, A., B., Scott, T., M., Sinigalliano, C.  
edited by Hagedorn, C., Blanch, A., Harwood, J.

Springer.2011

- **Recreational Water risk: Pathogens and Fecal Indicators.** *Encyclopedia of Sustainability Science and Technology*  
Boehm, A., B., Soller, J., A.  
edited by Meyers, R., A.  
Springer.2011
- **Oceans and human health.** *Encyclopedia of Environmental Health*  
Boehm, A., B., Bischel, H., N.  
edited by Nriagu, J.  
Burlington, Elsevier..2011: 223–230
- **Beach wrack is a reservoir for faecal indicator bacteria along the California coast** *FEMS Microbiology Ecology*  
Imamura, G., Strickfaden, R., M., Boehm, A., B., Jay., J., A.  
2011; 77: 40-49
- **A comparison of surface sampling methods for virus recovery from fomites.** *Applied and Environmental Microbiology*  
Julian, T., R., Tamayo, F., J., Leckie, J., O., Boehm, A., B.  
2011; 77: 6918-6925
- **Prominent human health impacts from several marine microbes: History, ecology, and public health implications.** *International Journal of Microbiology*  
Bienfang, P., K., DeFelice, S., V., Laws, E., A., Brand, L., E., Bidigare, R., R., Christensen, S., Boehm, A.  
2011
- **Hand fecal contamination among Tanzanian mothers varies temporally and following household activities.** *Tropical Medicine and International Health*  
Pickering, A., J., Julian, T., R., Mamuya, S., Boehm, A., B., Davis, J.  
2011; 16: 233-239
- **Contributions of Foot Traffic and Outdoor Concentrations to Indoor Airborne Aspergillus** *AEROSOL SCIENCE AND TECHNOLOGY*  
Goebes, M. D., Boehm, A. B., Hildemann, L. M.  
2011; 45 (3): 352-363
- **Efficacy of alcohol-based hand sanitizer on hands soiled with dirt and cooking oil** *JOURNAL OF WATER AND HEALTH*  
Pickering, A. J., Davis, J., Boehm, A. B.  
2011; 9 (3): 429-433
- **Virus transfer between fingerpads and fomites** *JOURNAL OF APPLIED MICROBIOLOGY*  
JULIAN, T. R., Leckie, J. O., Boehm, A. B.  
2010; 109 (6): 1868-1874
- **Enterococcus species distribution among human and animal hosts using multiplex PCR** *JOURNAL OF APPLIED MICROBIOLOGY*  
Layton, B. A., Walters, S. P., Lam, L. H., Boehm, A. B.  
2010; 109 (2): 539-547
- **Caffeine and agricultural pesticide concentrations in surface water and groundwater on the north shore of Kauai (Hawaii, USA)** *MARINE POLLUTION BULLETIN*  
Knee, K. L., Gossett, R., Boehm, A. B., Paytan, A.  
2010; 60 (8): 1376-1382
- **Relationship and Variation of qPCR and Culturable Enterococci Estimates in Ambient Surface Waters Are Predictable** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Whitman, R. L., Ge, Z., Nevers, M. B., Boehm, A. B., Chern, E. C., Haugland, R. A., Lukasik, A. M., Molina, M., Przybyla-Kelly, K., Shively, D. A., White, E. M., Zepp, R. G., Byappanahalli, et al  
2010; 44 (13): 5049-5054
- **Nutrient inputs to the coastal ocean from submarine groundwater discharge in a groundwater-dominated system: Relation to land use (Kona coast, Hawaii, USA)** *LIMNOLOGY AND OCEANOGRAPHY*  
Knee, K. L., Street, J. H., Grossman, E. E., Boehm, A. B., Paytan, A.  
2010; 55 (3): 1105-1122



- **Hands, Water, and Health: Fecal Contamination in Tanzanian Communities with Improved, Non-Networked Water Supplies** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Pickering, A. J., Davis, J., Walters, S. P., Horak, H. M., Keymer, D. P., Mushi, D., Strickfaden, B., Chynoweth, J. S., Liu, J., Blum, A., Rogers, K., Boehm, A. B.  
2010; 44 (9): 3267-3272
- **Efficacy of Waterless Hand Hygiene Compared with Handwashing with Soap: A Field Study in Dar es Salaam, Tanzania** *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*  
Pickering, A. J., Boehm, A. B., Mwanjali, M., Davis, J.  
2010; 82 (2): 270-278
- **Contrasting spring and summer phytoplankton dynamics in the nearshore Southern California Bight** *LIMNOLOGY AND OCEANOGRAPHY*  
Santoro, A. E., Nidzieko, N. J., Van Dijken, G. L., Arrigo, K. R., Boehm, A. B.  
2010; 55 (1): 264-278
- **Classical and Molecular Methods to Measure Fecal Bacteria.** *The Fecal Indicator Bacteria*  
Edge, T., A., Boehm, A., B.  
edited by Sadowsky, M., Whitman, R.  
ASM Press.2010: 328
- **Modeling Fate and Transport of Fecal Bacteria in Surface Water.** *The Fecal Indicator Bacteria*  
Nevers, M., N., Boehm, A., B.  
edited by Sadowsky, M., Whitman, R.  
ASM Press.2010: 328
- **Microbial and metal water quality in rain catchments compared with traditional drinking water sources in the East Sepik Province, Papua New Guinea** *JOURNAL OF WATER AND HEALTH*  
Horak, H. M., Chynoweth, J. S., Myers, W. P., Davis, J., Fendorf, S., Boehm, A. B.  
2010; 8 (1): 126-138
- **Persistence of nucleic acid markers of health-relevant organisms in seawater microcosms: Implications for their use in assessing risk in recreational waters** *WATER RESEARCH*  
Walters, S. P., Yamahara, K. M., Boehm, A. B.  
2009; 43 (19): 4929-4939
- **Faecal indicator bacteria enumeration in beach sand: a comparison study of extraction methods in medium to coarse sands** *JOURNAL OF APPLIED MICROBIOLOGY*  
Boehm, A. B., Griffith, J., Mcgee, C., Edge, T. A., Solo-Gabriele, H. M., Whitman, R., Cao, Y., Getrich, M., Jay, J. A., Ferguson, D., Goodwin, K. D., Lee, C. M., Madison, et al  
2009; 107 (5): 1740-1750
- **Covariation and Photoinactivation of Traditional and Novel Indicator Organisms and Human Viruses at a Sewage-Impacted Marine Beach** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Boehm, A. B., Yamahara, K. M., Love, D. C., Peterson, B. M., McNeill, K., Nelson, K. L.  
2009; 43 (21): 8046-8052
- **Distribution and diversity of the enterococcal surface protein (esp) gene in animal hosts and the Pacific coast environment** *JOURNAL OF APPLIED MICROBIOLOGY*  
Layton, B. A., Walters, S. P., Boehm, A. B.  
2009; 106 (5): 1521-1531
- **Growth of Enterococci in Unaltered, Unseeded Beach Sands Subjected to Tidal Wetting (vol 75, pg 1517, 2009)** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Yamahara, K. M., Walters, S. P., Boehm, A. B.  
2009; 75 (9): 2997-2997
- **A Model of Exposure to Rotavirus from Nondietary Ingestion Iterated by Simulated Intermittent Contacts** *RISK ANALYSIS*  
Julian, T. R., Canales, R. A., Leckie, J. O., Boehm, A. B.  
2009; 29 (5): 617-632
- **Biogeographic Patterns in Genomic Diversity among a Large Collection of Vibrio cholerae Isolates** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Keymer, D. P., Lam, L. H., Boehm, A. B.



2009; 75 (6): 1658-1666

- **A sea change ahead for recreational water quality criteria** *JOURNAL OF WATER AND HEALTH*  
Boehm, A. B., Ashbolt, N. J., Colford, J. M., Dunbar, L. E., Fleming, L. E., Gold, M. A., Hansel, J. A., Hunter, P. R., Ichida, A. M., McGee, C. D., Soller, J. A., Weisberg, S. B.  
2009; 7 (1): 9-20
- **Growth of Enterococci in Unaltered, Unseeded Beach Sands Subjected to Tidal Wetting** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Yamahara, K. M., Walters, S. P., Boehm, A. B.  
2009; 75 (6): 1517-1524
- **Sources of nutrients and fecal indicator bacteria to nearshore waters on the north shore of Kauai (Hawaii, USA)** *ESTUARIES AND COASTS*  
Knee, K. L., Layton, B. A., Street, J. H., Boehm, A. B., Paytan, A.  
2008; 31 (4): 607-622
- **Submarine discharge of nutrient-enriched fresh groundwater at Stinson Beach, California is enhanced during neap tides** *LIMNOLOGY AND OCEANOGRAPHY*  
de Sieyes, N. R., Yamahara, K. M., Layton, B. A., Joyce, E. H., Boehm, A. B.  
2008; 53 (4): 1434-1445
- **Fecal indicator bacteria and Salmonella in ponds managed as bird habitat, San Francisco Bay, California, USA** *WATER RESEARCH*  
Shellenbarger, G. G., Athearn, N. D., Takekawa, J. Y., Boehm, A. B.  
2008; 42 (12): 2921-2930
- **Shifts in the relative abundance of ammonia-oxidizing bacteria and archaea across physicochemical gradients in a subterranean estuary** *ENVIRONMENTAL MICROBIOLOGY*  
Santoro, A. E., Francis, C. A., de Sieyes, N. R., Boehm, A. B.  
2008; 10 (4): 1068-1079
- **Enterococci concentrations in diverse coastal environments exhibit extreme variability** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Boehm, A. B.  
2007; 41 (24): 8227-8232
- **Frequent occurrence of the human-specific Bacteroides fecal marker at an open coast marine beach: relationship to waves, tides and traditional indicators** *ENVIRONMENTAL MICROBIOLOGY*  
Santoro, A. E., Boehm, A. B.  
2007; 9 (8): 2038-2049
- **Beach sands along the California coast are diffuse sources of fecal bacteria to coastal waters** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Yamahara, K. M., Layton, B. A., Santoro, A. E., Boehm, A. B.  
2007; 41 (13): 4515-4521
- **Detection and transformation of genome segments that differ within a coastal population of Vibrio cholerae strains** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Miller, M. C., Keymer, D. P., Avelar, A., Boehm, A. B., Schoolnik, G. K.  
2007; 73 (11): 3695-3704
- **Genomic and phenotypic diversity of coastal Vibrio cholerae strains is linked to environmental factors** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Keymer, D. P., Miller, M. C., Schoolnik, G. K., Boehm, A. B.  
2007; 73 (11): 3705-3714
- **Now-casting recreational water quality.** *Statistical Framework for Water Quality Criteria and Monitoring*  
Boehm, A., B., Whitman, R., L., Nevers, M., B., Hou, D., Weisberg, S., B.  
edited by Wymer, L., Dufour, A.  
2007
- **Beach sands along the California coast are diffuse sources of fecal bacteria to coastal waters.** *Environmental Science & Technology*  
Yamahara, K., M., Layton, B., A., Santoro, A., E., Boehm., A., B.  
2007; 41: 4515-4521

- **Human development is linked to multiple water body impairments along the California coast** *ESTUARIES AND COASTS*  
Handler, N. B., Payran, A., Higgins, C. P., Luthy, R. G., Boehm, A. B.  
2006; 29 (5): 860-870
- **Regional public health cost estimates of contaminated coastal waters: A case study of gastroenteritis at southern California beaches** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Given, S., Pendleton, L. H., Boehm, A. B.  
2006; 40 (16): 4851-4858
- **Enterococci predictions from partial least squares regression models in conjunction with a single-sample standard improve the efficacy of beach management advisories** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Hou, D., Rabinovici, S. J., Boehm, A. B.  
2006; 40 (6): 1737-1743
- **Composition and flux of groundwater from a California beach aquifer: Implications for nutrient supply to the surf zone (vol 26, pg 269, 2006)** *CONTINENTAL SHELF RESEARCH*  
Boehm, A., Paytan, A., Shellenbarger, G. G., Davis, K. A.  
2006; 26 (4): 554-554
- **Denitrifier community composition along a nitrate and salinity gradient in a coastal aquifer** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*  
Santoro, A. E., Boehm, A. B., Francis, C. A.  
2006; 72 (3): 2102-2109
- **Composition and flux of groundwater from a California beach aquifer: Implications for nutrient supply to the surf zone** *CONTINENTAL SHELF RESEARCH*  
Boehm, A. B., Paytan, A., Shellenbarger, G. G., Davis, K. A.  
2006; 26 (2): 269-282
- **An analytical model of enterococci inactivation, grazing, and transport in the surf zone of a marine beach** *WATER RESEARCH*  
Boehm, A. B., Keymer, D. P., Shellenbarger, G. G.  
2005; 39 (15): 3565-3578
- **Tidal forcing of enterococci at marine recreational beaches at fortnightly and semidiurnal frequencies** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Boehm, A. B., Weisberg, S. B.  
2005; 39 (15): 5575-5583
- **Groundwater discharge: Potential association with fecal indicator bacteria in the surf zone** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Boehm, A. B., Shellenbarger, G. G., Paytan, A.  
2004; 38 (13): 3558-3566
- **Scaling and management of fecal indicator bacteria in runoff from a coastal urban watershed in southern California** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Reeves, R. L., Grant, S. B., Mrse, R. D., Oancea, C. M., Sanders, B. F., Boehm, A. B.  
2004; 38 (9): 2637-2648
- **Covariation of coastal water temperature and microbial pollution at interannual to tidal periods** *GEOPHYSICAL RESEARCH LETTERS*  
Boehm, A. B., Lluch-Cota, D. B., Davis, K. A., Winant, C. D., Monismith, S. G.  
2004; 31 (6)
- **Bacterial Contamination and Submarine Groundwater Discharge-A Possible Link** *ENVIRONMENTAL CHEMISTRY*  
Paytan, A., Boehm, A. B., Shellenbarger, G. G.  
2004; 1 (1): 29-30
- **Sources, management, and scaling of fecal indicator bacteria in runoff from a coastal urban watershed in Southern California.** *Environmental Science and Technology*  
Reeves, R., L., Grant, S., B., Mrse, R., D., Oancea, C., M. C., Sanders, B., F., Boehm., A., B.  
2004; 38: 2637-2648
- **Model of microbial transport and inactivation in the surf zone and application to field measurements of total coliform in Northern Orange County, California** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Boehm, A. B.

2003; 37 (24): 5511-5517

- **Tiered approach for identification of a human fecal pollution source at a recreational beach: Case study at Avalon Cay, Catalina Island, California** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Boehm, A. B., Fuhrman, J. A., Mrse, R. D., Grant, S. B.  
2003; 37 (4): 673-680
- **A model of microbial transport and inactivation in the surf zone and application to field measurements of total coliform in Northern Orange County, California.** *Environmental Science and Technology*  
Boehm., A., B.  
2003; 37: 5511-5517
- **A tiered approach for identification of a human fecal pollution source at a recreational beach: Case study at Avalon Bay, Catalina Island, California, USA.** *Environmental Science and Technology*  
Boehm., A., B., Fuhrman, J., A., Mrse, R., D., Grant., S., B.  
2003; 37: 673-680
- **A scaling theory for number-flux distributions generated during steady-state coagulation and settling and application to particles in Lake Zurich, Switzerland** *JOURNAL OF COLLOID AND INTERFACE SCIENCE*  
Boehm, A. B.  
2002; 254 (2): 266-273
- **Decadal and shorter period variability of surf zone water quality at Huntington Beach, California** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Boehm, A. B., Grant, S. B., Kim, J. H., Mowbray, S. L., McGee, C. D., Clark, C. D., Foley, D. M., Wellman, D. E.  
2002; 36 (18): 3885-3892
- **Cross-shelf transport at Huntington Beach. Implications for the fate of sewage discharged through an offshore ocean outfall** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Boehm, A. B., Sanders, B. F., Winant, C. D.  
2002; 36 (9): 1899-1906
- **Decadal and shorter period variability of surf zone water quality at Huntington Beach, California.** *Environmental Science and Technology*  
Boehm., A., B., Grant, S., B., Kim, J., H., Mowbray, S., L., McGee, C., D., Clark, C., D.  
2002; 36: 3885-3892
- **Cross-shelf transport at Huntington Beach -Implications for the fate of sewage discharged through an offshore ocean outfall.** *Environmental Science and Technology*  
Boehm., A., B., Sanders, B., F., Winant., C., D.  
2002; 36: 1899-1906
- **A steady state model of particulate organic carbon flux below the mixed layer and application to the Joint Global Ocean Flux Study** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*  
Boehm, A. B., Grant, S. B.  
2001; 106 (C12): 31227-31237
- **Generation of enterococci bacteria in a coastal saltwater marsh and its impact on surf zone water quality** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Grant, S. B., Sanders, B. F., Boehm, A. B., Redman, J. A., Kim, J. H., Mrse, R. D., Chu, A. K., Gouldin, M., McGee, C. D., Gardiner, N. A., Jones, B. H., Svejkovsky, J., Leipzig, et al  
2001; 35 (12): 2407-2416
- **A steady-state model of particulate organic carbon flux below the mixed layer and application to the Joint Global Ocean Flux Study.** *Journal of Geophysical Research-Oceans*  
Boehm, A., B., Grant., S., B.  
2001; 106: 31227-21237
- **Generation of enterococci bacteria in a coastal saltwater marsh and its impact on surf zone water quality.** *Environmental Science & Technology*  
Grant, S., B., Sanders, B., F., Boehm, A., B., Redman, J., A., Kim, J., H., Mrse, R., D.  
2001; 35: 2407-2416
- **Particle coagulation and the memory of initial conditions** *JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL*  
Boehm, A. B., Poor, C., Grant, S. B.

1998; 31 (46): 9241-9254

- **Influence of coagulation, sedimentation, and grazing by zooplankton on phytoplankton aggregate distributions in aquatic systems** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*

Boehm, A. B., Grant, S. B.

1998; 103 (C8): 15601-15612

- **Particle coagulation and the memory of initial conditions** *Journal of Physics A: Mathematics and General*

Boehm, A., B., Poor, C., Grant., S., B.

1998; 31: 9241-9254

- **The influence of coagulation, sedimentation, and grazing by zooplankton on phytoplankton aggregate size distributions in aquatic systems.** *Journal of Geophysical Research-Oceans*

Boehm, A., B., Grant., S., B.

1998; 103: 15601-15612