

# Stanford

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## 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

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### Bio

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#### 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**

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### PROJECTS

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

## **Teaching**

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### 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

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### PUBLICATIONS

- **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*  
MMWR-MORBIDITY AND MORTALITY WEEKLY REPORT

Valencia, D., Yu, A., Wheeler, A., Hopkins, L., Pray, I., Hortscher, 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., Lauring, 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., Rippy, M. A., Werhorst, 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., Ganeshanandamoorthy, 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.

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