

Vicente Gómez-Alvarez, Biologist in EPA's National Risk Management Research Laboratory

Water Systems Division

[Mailing Address](#)

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Areas of Expertise:

- Microbial community ecology in engineered and natural environments
- Application of genomic technologies, metagenomics/bioinformatics approaches, and culture-dependent techniques
- Structure and function of microbiomes

Select Publications:

Card ML, **Gomez-Alvarez V**, Lee W-H, Lynch DG, Orentas NS, Lee MT, Wong EM & Boethling RS. 2017. [History of EPI Suite™ and future perspectives on chemical property estimation in US Toxic Substances Control Act new chemical risk assessments](#). Environ Sci Process Impacts. **19**: 203-212.

Buse HY, Ji P, **Gomez-Alvarez V**, Pruden A, Edwards MA & Ashbolt NJ. 2017. [Effect of temperature and colonization of Legionella pneumophila and Vermamoeba vermiformis on bacterial community composition of copper drinking water biofilms](#). Microb Biotechnol. doi: 10.1111/1751-7915.12457.

Pfaller S, Tokarev V, Kessler C, McLimans C, **Gomez-Alvarez V**, Wright J, King D & Lamendella R. 2017. [Draft Genome Sequence of Mycobacterium chimaera Type Strain FI-0169](#). Genome Announc. **5**: e01620-16.

Gomez-Alvarez V, Pfaller S, Pressman JG, Wahman DG & Revetta RP. 2016. [Resilience of Microbial Communities in a simulated Drinking Water Distribution System Subjected to Disinfectant: role of conditionally rare taxa and potential implications for antibiotic-resistant bacteria](#). Environ Sci: Water Res Technol. **2**:645-657.

Revetta RP, **Gomez-Alvarez V**, Gerke TL, Santo Domingo JW & Ashbolt NJ. 2016. [Changes in bacterial composition of biofilm in a metropolitan drinking water distribution system](#). J Appl Microbiol. **121**:294-305.

Gomez-Alvarez V, Pfaller S & Revetta RP. 2016. [Draft Genome of Two Sphingopyxis sp. Strains, Dominant Members of the Bacterial Community Associated with a Drinking Water Distribution System Simulator](#). Genome Announc. **4**:e00183-16.

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Education:

- PhD., University of Massachusetts, Amherst, MA; Microbiology, 2006.
- M.S., University of Puerto Rico, San Juan, PR; Biology, 2000.
- B.S., University of Puerto Rico, Mayagüez, PR; Industrial Microbiology, 1995.

Professional Experience:Memberships and Committees

- Water Research Foundation (WRF) Project Advisory Committee Member, *Tailored Collaboration Program* (Project: “*The Use of Next Generation Sequencing (NGS) and Metagenomics Approaches to Evaluate Anti-Microbial Resistance, Plant Challenge, Biological Removal Processes*”)
- American Society for Microbiology
- International Society of Microbial Ecology (ISME)
- Soil Science Society of America
- Puerto Rican Society of Microbiology

Awards and Honors

- US EPA 2017 Bronze Medal Award *ORD FEMA Support Team*.
- US EPA Level III 2013 Scientific and Technological Achievement Award (STAA).
- DWDSOME Consortium Grant (co-PI/international collaboration). "Microbiome dynamics in drinking water distribution systems". Sponsored by the Academy of Finland. 2014-2018.
- US EPA Superior Accomplishment Recognition Award. Sponsored by the National Risk Management Research Laboratory, Water Supply and Water Resources Division, Microbial Contaminants Control Branch. 2011-2014 & 2016-2018.
- US EPA Federal Postdoctoral Fellowship Award. Sponsored by the National Risk Management Research Laboratory, Water Supply and Water Resources Division. 2011-2015.
- Post-Doctoral Travel Grant. Sponsored by the American Society for Microbiology. 2009.
- Office of the Provost Postdoctoral Fellowship Award. Sponsored by the Provost Office, Michigan State University. 2008-2010.
- Northeast Alliance for Graduate Education and the Professoriate/UMass-Minority Graduate Education Fellowship. Sponsored by the National Science Foundation. 2000-2001 & 2005-2006
- Presidential Awards for Graduate Studies-University of Puerto Rico. Sponsored by the Presidential Office, University of Puerto Rico. 2000-2001