

Dawn King, Microbiologist, in EPA's National Exposure Research Laboratory

Systems Exposure Division

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Area of Expertise: Developed immunological techniques to detect target organisms and toxins by immunoassay and flow cytometry using drinking water, recreational water, and various other matrices. Development and optimization of methods to detect microbial contaminants in water by real-time PCR. Optimization of the U.S. EPA Method 1623: *Cryptosporidium* and *Giardia* in water by Filtration/IMS/FA. Conducting training to assist commercial laboratories to utilize Method 1623.

Select Publications:

Dawn N. King, Maura Donohue, Stephen J. Vesper, Eric N. Villegas, Michael W. Ware, Megan E. Vogel, Edward F. Furlong, Dana W. Kolpin, Susan T. Glassmeyer, and Stacy Pfaller. Microbial Pathogens in Source and Treated Waters from Drinking Water Treatment Plants in the United States and Implications for Human Health. *Science of the Total Environment*. Accepted for Publication 2016.

Donohue MJ, Mistry JH, Donohue JM, O'Connell K, King D, Byran J, Covert T, Pfaller S. Increased Frequency of Nontuberculous Mycobacteria Detection at Potable Water Taps within the United States. *Environ Sci Technol*. 2015 May 19;49(10):6127-33.

Chern, E. C.; King, D.; Haugland, R.; Pfaller, S. Evaluation of qPCR assays targeting *Mycobacterium avium*, *Mycobacterium intracellulare* and *Mycobacterium avium* subspecies *paratuberculosis* in drinking water biofilms. *J. Water Health*. Mar 2015, 13 (1) 131-139; DOI: 10.2166/wh.2014.060.

Donohue, M., K. O'Connell, S. Vesper, J. Mistry, D. King, M. Kostich, AND S. Pfaller. Widespread molecular detection of *Legionella pneumophila* Serogroup 1 in cold water taps across the United States. *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. American Chemical Society, Washington, DC, 48(6):3145-3152, (2014).

Beumer, A., D. N. KING, M. J. DONOHUE, J. Mistry, T. C. COVERT, AND S. L. PFALLER. Detection of *Mycobacterium avium* subspecies *paratuberculosis* in Drinking Water and Biofilms Using Quantitative PCR. *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. American Society for Microbiology, Washington, DC, 76(21):7367-7370, (2010).

Dawn King, Maura Donohue, Jatin Mistry, Amy Beumer, and Stacy Pfaller. Detection of *Mycobacterium avium* and *Mycobacterium intracellulare* in Drinking Water from the US Using Quantitative Real-Time PCR. Presented at American Society for Microbiology General Meeting, San Diego, CA, May, 2010.

View more research publications by [Dawn King](#).

Education:

- B.S. Microbiology, Miami University, 2002

Professional Experience:

- Microbiologist, USEPA, ORD, NERL, MCEARD, MERB, Cincinnati, OH 2002-Present
- Research Microbiologist, USEPA, OW, TSC, Cincinnati, OH 2002-2002