

Ann Grimm, Supervisory Biologist, in EPA's National Exposure Research Laboratory

Exposure Methods and Measurements Division

[Mailing Address](#)

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Area of Expertise: Research in the Biohazard Assessment Research Branch focuses on the development of methods to detect parasites and viruses in water and to identify human exposure to these microorganisms. Once developed, these methods are used to better characterize the impact of microbial contaminants on human health and the environment. In addition, novel approaches of evaluating water quality are being investigated, including the use of sentinel animals such as mussels for the concentration and detection of pathogens. In addition, I have conducted research on emerging viruses, on microbial chemotaxis and degradation of polyaromatic hydrocarbons and on bacterial synthesis of antibiotics via the polyketide synthase genes.

Select Publications:

Cashdollar, JL, Huff, E, Ryu, H., Grimm, A. 2016. The influence of incubation time on adenovirus quantitation in A549 cells by most probable number. In preparation.

Augustine, SA, Simmons, KJ, Eason, TN, Curioso, CL, Griffin, SM, Wade, TJ, Dufour, A, Fout, GS, Grimm, AC, Oshima, KH, Sams, EA, See, MJ, Wymer, LJ. 2016. Application of a multiplex immunoassay measuring salivary IgG antibodies in beachgoers in Puerto Rico. Submitted.

McMinn, BR, Korajkic, A, Grimm, A. 2016. Optimization and evaluation of a method to detect adenovirus in river water. *Journal of Virological Methods*. Submitted.

Zimmerman, BD, Korajkic, A, Brinkman, NE, Grimm, AC, Ashbolt, NJ, Garland, JL. 2015. A defined spike cocktail for pathogen performance monitoring to characterize microbial risks with water reuse. *Water Environment Research*. Accepted.

Fout, GS, Brinkman, NE, Cashdollar, JL, Griffin, SM, Korajkic, A, McMinn, BR, Varughese, EA, Ware, MW, Rhodes, ER, Grimm, AC, Li, Charles. 2015. Comparison of EPA Method 1615 RT-qPCR Assays in Standard and Kit Formats. EPA/600/xx-15/130. July 2015.

Fout, GS, Cashdollar, JL, Varughese, EA, Parshionikar, SU, Grimm, AC. 2015. EPA Method 1615. Measurement of enterovirus and norovirus occurrence in water by culture and RT-qPCR. 1. Collection of virus samples. *Journal of Visualized Experiments*. doi: 10.3791/52067.

View more research publications by [Ann Grimm](#).

Education:

- Ph.D. in Genetics, University of Wisconsin, 1995
- B.S. in Genetics, Ohio State University, 1989

Professional Experience:

- Acting Assistant Laboratory Director for Safe and Sustainable Water, Cincinnati, OH 1/2016 – present
- Branch Chief, USEPA, ORD, NERL-EMMD, Cincinnati, OH 2015-2016
- Branch Chief, USEPA, ORD, NERL-MCEARD, Cincinnati, OH 2004-2015
- Research Biologist, USEPA, ORD, NERL-MCEARD, Cincinnati, OH 2000-2004
- Postdoctoral Associate, USEPA, ORD, NERL-MCEARD, Cincinnati, OH 1998-2000
- Postdoctoral Associate, University of Iowa, Iowa City, IA 1995-1998
- Graduate Research Assistant, University of Wisconsin, Madison, WI 1989-1995

Honors and Awards:

- Safety Health & Environmental Management, 2014, Individual Safety Award-Safety Contributions to Laboratory Research
- Safety Health & Environmental Management, 2012, Proactive Health and Safety – Biosafety/Bio waste Management
- Bronze Medal for Commendable Service, 2010, EPA Method 1615 Development Team
- US EPA Science Achievement Award, 2010, for coauthoring the “Method Validation of US Environmental Protection Agency Microbiological Methods of Analysis” FEM document
- EPA Award for Excellence, 2005-2006, for review of the “New Orleans Water Sampling Plan after Hurricane Katrina”
- EPA Bronze medal team award, 2005, for work on the “Quality Assurance/Quality Control Guidance for Laboratories Performing PCR Analyses on Environmental Samples”
- Scientific and Technical Achievement Award, 2003, for the Development of a Method to Detect Hepatitis E Virus