

Shannon M. (Hunt) Griffin, Biologist, in EPA's National Exposure Research Laboratory

Systems Exposure Division

[Mailing Address](#)

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Area of Expertise: Shannon has been involved in the development and application of innovative methods which utilize the highly specific human immune system antibody response as indicators of infection from waterborne pathogens. Her work has also included developing and validating molecular-based methods to measure occurrence of microbial contaminants in various water matrices. She will continue research on developing methods to evaluate community public health and well-being in addition to promoting community outreach and engagement.

Select Publications:

Fout, G.S., N.E. Brinkman, J.L. Cashdollar, S.M. Griffin, E.A. Varughese, and S.U. Parshionikar. 2016. US EPA Method 1615. Measurement of enterovirus and norovirus occurrence in water by culture and RT-qPCR. Part III. Virus detection by RT-qPCR. J. Vis. Exp., 107: e52646.

Fout, G.S., N.B. Brinkman, J.L. Cashdollar, S.M. Griffin, A. Korajkic, B.R. McMinn, E.A. Varughese, M.W. Ware, E.R. Rhodes, A.C. Grimm, and C. Li. 2015. Comparison of EPA Method 1615 RT-qPCR assays in standard and kit format. EPA/600/R-15/130.

Augustine, S.J., K.J. Simmons, T.N. Eason, S.M. Griffin, C.L. Curioso, L.J. Wymer, G.S. Fout, A.C. Grimm, K.H. Oshima, and A. Dufour. 2015. Statistical approaches to developing a multiplex immunoassay for determining human exposure to environmental pathogens. J. Immunol. Methods, 425: 1-9.

Griffin, S.M., R.R. Converse, J.S. Leon, T.J. Wade, X. Jiang, C.L. Moe, and A.I. Egorov. 2015. Application of salivary antibody immunoassays for the detection of incident infections with Norwalk virus in a group of volunteers. J. Immunol. Methods, 424: 53-63.

Griffin, S.M., N.E. Brinkman, E.J. Hedrick, E.R. Rhodes, and G.S. Fout. 2014. Comparison of Reverse Transcription-qPCR Approaches for Detection of GI and GII Noroviruses in Drinking Water. J. Virol. Methods, 199: 76-85.

Cashdollar, J.L., N.E. Brinkman, S.M. Griffin, B.R. McMinn, E.R. Rhodes, E.A. Varughese, A.G. Grimm, S.U. Parshionikar, L. Wymer, and G.S. Fout. 2013. Development and evaluation of EPA Method 1615 for detection of enterovirus and norovirus in water. Appl. Environ. Micro., 79(1): 215-223.

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Education:

- M.S. Biological Sciences, University of Cincinnati, 2006
- B.S. Biological Sciences, University of Cincinnati, 2001

Professional Experience:

- Biologist, USEPA, ORD, NERL-SED, Cincinnati, OH 2015-present
- Biologist, USEPA, ORD, NERL-MCEARD, Cincinnati, OH 2009-2015
- Postgraduate Research Fellow, Oak Ridge Institute for Science and Education, USEPA, ORD, NCEA, Cincinnati, OH 2006-2009
- Research Assistant, University of Cincinnati, Cincinnati, OH 2002-2006
- Teaching Assistant, University of Cincinnati, Cincinnati, OH 2002-2005
- Research Fellow, Women in Science and Engineering Program, University of Cincinnati, Cincinnati, OH 2001-2001

Honors and Awards:

- USEPA Pathfinder Innovation Project (PIP5) Award, 2015
- USEPA MCEARD Internal Development Grant, 2015
- YWCA Academy of Career Women of Achievement Rising Star Award, 2014
- USEPA ORD Science and Technological Achievement Award, Level III, 2013
- USEPA MCEARD Internal Development Grant, 2013
- USEPA ORD Science and Technological Achievement Award, Honorable Mention, 2012
- USEPA ORD Honor Award, 2012
- Federal Pay Scale Quality Step Increase for Outstanding Performance, 2012
- USEPA ORD Science and Technological Achievement Award, Honorable Mention, 2011
- USEPA ORD Bronze Medal for Commendable Service, 2011
- USEPA NERL Meritorious Research Support Award, 2011