

**John Darling, Senior Research Biologist, in EPA's National Exposure Research Laboratory**

Systems Exposure Division

[Mailing Address](#)

[darling.john@epa.gov](mailto:darling.john@epa.gov)

**Area of Expertise:** John Darling's research focuses primarily on applying genetic methods to understand the spread of aquatic invasive species in order to better inform risk analysis and the design of effective policy and management strategies. His work ranges from utilization of population genetic and phylogeographic approaches for reconstructing invasion histories to the development of genetic tools for early detection and monitoring. He is also interested in the problem of translating scientific knowledge into appropriate management action.

**Select Publications:**

Pilgrim E, Blum MJ, Reusser DA, Lee H, Darling JA. 2013. Geographic range and structure of cryptic diversity among Pacific North American populations of the non-native amphipod *Grandidierella japonica*. *Biological Invasions* 15: 2415-2428.

Darling JA, Herborg L-M, Davidson I. 2012. Intracoastal shipping drives patterns of regional population expansion by an invasive marine invertebrate. *Ecology & Evolution* 2: 2557-2566.

Darling JA, Mahon AR. 2011. From molecules to management: Adopting DNA-based methods for monitoring biological invasions in aquatic environments. *Environmental Research*. 111: 978-988.

Darling JA. 2011. More than one way to invade: Lessons from genetic studies of *Carcinus* shore crabs. Invited contribution to *In the Wrong Place: Alien Marine Crustaceans—Distributions, Biology and Impacts*. B. Galil and P. Clark, eds. Springer-Verlag, Berlin.

Geller JB, Darling JA, Carlton JT. 2010. Genetic perspectives on marine invasions. *Annual Review of Marine Science* 2: 367-393.

Darling JA, Folino-Rorem NC. 2009. Genetic analysis over different spatial scales reveals multiple dispersal mechanisms for the invasive hydrozoan *Cordylophora* in the Great Lakes. *Molecular Ecology* 18: 4827-4840.

View more research publications by [John Darling](#).

**Education:**

- Ph.D. in Biology, 1999, University of Pennsylvania
- M.A. in Environmental and Ecological Ethics, 2004, Boston University
- B.A. in Molecular Biology and Biochemistry, 1993, Wesleyan University

**Professional Experience:**

- Senior Research Biologist, Molecular Ecology Research Branch, US Environmental Protection Agency, 2013 to Present
- Adjunct Assistant Professor of Environmental Studies, University of Cincinnati, 2007-Present
- Adjunct Assistant Professor of Biological Sciences, University of Cincinnati, 2010 to Present
- Assistant Laboratory Director (acting), Sustainable and Healthy Communities Research Program, National Exposure Research Laboratory, US Environmental Protection Agency 2011 to 2012
- Research Biologist, Molecular Ecology Research Branch, US Environmental Protection Agency, 2009 to 2013
- National Exposure Research Laboratory Postdoctoral Researcher, Molecular Ecology Research Branch, US Environmental Protection Agency, 2007 to 2009
- Oak Ridge Institute for Science and Education (ORISE) Postdoctoral Fellow, Molecular Ecology Research Branch, US Environmental Protection Agency, 2005 to 2007