

Curriculum Vitae

Scott Lindell

Research Specialist
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Education and Training

1988 - M.S. Fisheries and Wildlife, University of Massachusetts, Amherst, MA.
1985 Dept. of Genetics, University of Stockholm, Sweden
1980 - B.A. Biology, University of California, Berkeley.

Employment History

2016 – present, Research Specialist, AOPE Dept., Woods Hole Oceanographic Institution, Woods Hole, MA. Lead PI for ARPA-e MARINER project, “Selective Breeding Technologies for Scalable Offshore Seaweed Farming”.

2004 – 2016, Director, Scientific Aquaculture Program, Marine Biological Laboratory, Woods Hole, MA. Responsible for research and development program aimed at aiding commercial aquaculture, restoring fisheries and the environment, and enhancing biomedical research. Research focused on microalgae, macroalgae and shellfish culture technologies.

2003 – 2012, Marine Resources Manager, Marine Resources Center, Marine Biological Laboratory, Woods Hole, MA. Oversee collection, care, sale and distribution of marine organisms for the Woods Hole and international scientific community and customers. Oversee the coordination of scientific programs and research space within the 32,000 square foot center.

1995 – 2002, Scientific Director, Fins Technology, LLC (& AquaFuture, Inc.), Turners Falls, MA.. Lead research and development to enhance fish farming productivity through biotechnology. Research included selective breeding, broodstock management, improving reproductive control, early larval husbandry, water quality and waste management.

1991 – 1994, Environmental Director, AquaFuture, Inc., Turners Falls, Massachusetts. Responsible for all biological process control and permits for 40,000 sq. ft. striped bass farm.

1987 – 1990, Vice President of Operations and Marketing, AquaFuture, Inc., Turners Falls, MA

1985 – 1986, Research Fellow, Dept. of Genetics, University of Stockholm, Sweden. Documented loss of genetic variation in hatchery stocks of trout due to breeding practices.

1983 – 1984 and 1986 to 1987, Research Associate, University of Massachusetts, Amherst. Genetically characterized stocks of Atlantic salmon in U.S. and Canadian rivers.

1980 – 1982, Research Assistant, California Gene Resource Program, Berkeley, CA. Collected and analyzed genetic and ecological data related to the cultivation of fish, agricultural, and forestry species in California, and published reports for the State of California.

Awards and Honors

Fulbright/ITT Fellowship, University of Stockholm, Sweden, 1985.

Graduate Student Research Fellowship, University of Massachusetts, Amherst 1983, '84, '86

Other peer-reviewed publications demonstrating capabilities in the broad field

Augyte, Simona, Gary Wikfors, Steven Pitchford, Michael Marty-Rivera, Schery Umanson, Scott Lindell, David Bailey, Charles Yarish. 2020. The application of flow cytometry for kelp meiospore isolation. *Algal Research* (accepted January 2020).

Carman, Mary R., Emma Green-Beach, Victoria R. Starczak, Morgan Beals, **Scott Lindell** (2016). Treatments to eradicate invasive tunicate fouling from blue mussel seed and aquaculture bags. *Management of Biological Invasions* Volume 7, Issue 1: 101–110. doi.org/10.3391/mbi.2016.7.1.12

Rosauer, D.R., P.R. Biga, **S.R. Lindell**, F. P. Binkowski, B.S. Shepherd, D.E. Palmquist, C.A. Simchick, F.W. Goetz. 2011. Development of yellow perch (*Perca flavescens*) broodstocks: Initial characterization of growth and quality traits following grow-out of different stocks. *Aquaculture* 317 (2011) 58–66. doi.org/10.1016/j.aquaculture.2011.03.037

Lindell, S.R., B. Delbos, R. Perham, J. Goldman, E.M. Hallerman, T. O. Brenden. 2004. Performance of backcross hybrid striped bass in recirculation aquaculture systems. *Intl. Journal of Recirculating Aquaculture* Vol. 5, 43-54.

Jacobs, J.M., **S. Lindell**, W. Van Heukelem, E.M. Hallerman, R.M. Harrell. 1999. Strain evaluation of striped bass (*Morone saxatilis*) under controlled conditions. *Aquaculture* 173 (1999) 171-177. doi.org/10.1016/s0044-8486(98)00485-2

Non-peer-reviewed publications and patents demonstrating capabilities in the broad field

Corbin, J, J. Holmyard, and **S. Lindell**. 2017. Regulation and Permitting of Standalone and Co-located Open Ocean Aquaculture Facilities, pp 187-232; chapter in “Aquaculture perspective of multi-use sites in the open ocean, the untapped potential for marine resources in the anthropocene” edited by B.H. Buck and R. Langan. Springer Publications (ISBN 978-3-319-51159-7 (eBook)) 404pp.

Kim JK, **Lindell S**, Green-Beach E, Peach M, Beals M, Yarish C (2013) Multi-cropping seaweed *Gracilaria tikvahiae* with oysters for nutrient bioextraction and sea vegetables in Waquoit Bay, Massachusetts. *Phycologia* 52:53

Lindell, S. 2013. Offshore Mussel Culture - Biologists Refine Longline Methods In New England, USA. *Global Aquaculture Advocate*, July/August, p. 46 – 47.

O’Neil, G.W., Reddy, C. M., T. J. Goepfert, C. A. Carmichael, B. A. S. Van Mooy, N. G-E Mohammady, C. P. L. Lau, and **S. R. Lindell**. 2012. Beyond Fatty Acid Methyl Esters: Expanding the Renewable Carbon Profile with Alkenones from *Isochrysis* sp. *Energy and Fuels*, online at: <http://pubs.acs.org/doi/abs/10.1021/ef3001828>.

Lindell, S.R., S. Miner, C. Goudey, H. Kite-Powell, S. Page. 2012. Acoustic Conditioning and Ranching of Black Sea Bass *Centropristis striata* in Massachusetts, USA. In Proceedings of the 39th Scientific Symposium of the UJNR Aquaculture Panel, Kagoshima, Japan. *Bull. Fish. Res. Agen.* No. 35. 103-110.

Lindell, S. organizer and editor. 2011. International Offshore Mussel Farming Workshop, February 11, 2011, Milford CT. <http://www.mbl.edu/mrc/outreach-education/offshore-mussel-farming-workshop/>

Rawson, P.D., **S.R. Lindell**, X. Guo, I. Sunila, 2010. Cross-Breeding for Improved Growth and Disease Resistance in the Eastern Oyster. Northeast Regional Aquaculture Center Pub. No. 206 – 2010. 6pp.

PATENTS

United States Patent 6,117,313. Goldman, J., Perham, R., **Lindell, S.** Methods and apparatus for aquaculture and for waste treatment related thereto. (September 12, 2000)

United States Patent 9,879,288. **Lindell, S.**, Reddy, C.M., O'Neil, G.W. Use of marine algae for producing polymers. (January 30, 2018).

United States Patent 9,970,034. Reddy, C.M., O'Neil, G.W., **Lindell, S.** Use of marine algae for co-producing alkenones, alkenone derivatives, and co-products. (May 15, 2018)