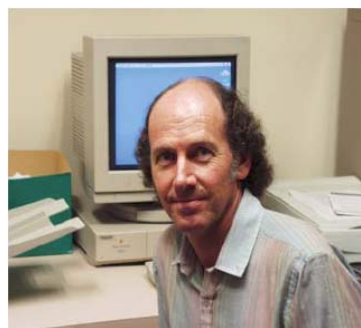


**Larry E. Brand, PhD**

***Professor, Marine Biology and Fisheries***



**NSF NIEHS Oceans & Human Health Center Role: Co-PI- Toxic HABs**

**LARRY E. BRAND**

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**Education**

- (1974) B.A. University of Texas at Austin
- (1980) Ph.D. Woods Hole Oceanographic Inst./MIT

**Research Interests**

My basic interest is in the interaction of ecological and evolutionary processes in marine phytoplankton. I am interested in how fast and to what extent phytoplankton populations and species are able to adapt to their local environments and the relative roles of environmental selection and phylogenetic constraints in influencing the evolution of various adaptations. Over a hundred species isolated from different areas of the ocean, representing all the major phylogenetic groups of algae, are maintained in the laboratory. Most of my research has focussed on adaptations to trace nutrients and light intensity, quality and timing. Other research interests include studies on the population genetics of phytoplankton, biotechnological potential of algae, nutritional quality of different phytoplankton species as food for animals used in mariculture, and field studies on environmental quality.

## Representative Publications

**Brand, L.E.** (2002). The transport of terrestrial nutrients to South Florida coastal waters. pp. 353-406, In: *The Everglades, Florida Bay, and Coral Reefs of the Florida Keys*, Ed. by J.W. Porter and K.G. Porter, CRC Press, Boca Raton, Florida.

Boyer, G.L. and **L.E. Brand**. (1998). Trace elements and harmful algal blooms. pp. 489-508, In: *Physiological Ecology of Harmful Algal Blooms*, Ed. by D.M. Anderson, A.D. Cembella and G.M. Hallegraeff, Springer-Verlag, Heidelberg.

**Brand, L.E.** (1994). Physiological ecology of marine coccolithophores. pp. 39-49. In: *Coccolithophores*, Ed. by A. Winter and W. Siesser, Cambridge University Press.

**Brand, L.E.** (1991). Minimum iron requirements of marine phytoplankton and the implications for the biogeochemical control of new production. *Limnol. Oceanogr.* 36: 1756-1771.

**Brand, L.E.**, M.D. Gottfried, C.C. Baylon and N.S. Romer. (1991). The spatial and temporal distribution of phytoplankton in Biscayne Bay, Florida. *Bull. Mar. Sci.* 49:599-613.

**Brand, L.E.** (1991). Review of genetic variation in marine phytoplankton species and the ecological implications. *Biol. Oceanogr.* 6:397-409.

**Brand, L.E.** (1986). Nutrition and culture of autotrophic ultraplankton and picoplankton. *Can. Bull. Fish. Aquat. Sci.* 214:205-233.

More Info:

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