



David A. Caron, PhD

Professor, Biological Sciences (University of Southern California)

**NSF-NIEHS Oceans & Human Health Center Role: External Advisory
Committee Member (EAC)**

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Education

- Ph.D., Joint Program in Biological Oceanography, Massachusetts Institute of Technology and Woods Hole Oceanographic Inst., 1984
- M.S., Oceanography, University of Rhode Island 1977
- B.S., Microbiology, University of Rhode Island 1975

Research Interests

Marine and freshwater microbial ecology, with emphasis on the trophic relationships between protists (microalgae and protozoa) and other planktonic and benthic microorganisms. Recent research programs have focused on the distribution, feeding ecology, respiration and nutrient regeneration of bacterivorous and herbivorous protozoa, the ecology of harmful algae, the physiology of Antarctic protists, feeding and growth of phagotrophic (mixotrophic) microalgae, and the development of molecular biological approaches for studying the ecology of free-living microorganisms.

Representative Publications

Caron, D.A., P.D. Countway and M.V. Brown. In Press. The growing contribution of molecular biology and immunology to protistan ecology: molecular signatures as ecological tools. *J. Eukaryot. Microbiol.* 50: 383-393.

Caron, D.A., M.R. Dennett, D.M. Moran, R.A. Schaffner, D.J. Lonsdale, C.J. Gobler, R. Nuzzi and T.I. McLean. 2003. Development and application of a monoclonal antibody technique for counting *Aureococcus anophagefferens*, an alga causing recurrent brown tides in the mid-atlantic United States. *Appl. Environ. Microbiol.* 69: 5492-5502.

Caron, D.A. 2001. Protistan community structure. In: Hurst, C.J., Knudsen, G.R., McInerney, M.J., Stetzenbach, L.D. and M.V. Walter (eds.). *Manual of Environmental Microbiology, Section IV*, ASM Press, Washington, D.C., pp. 378-389.

Caron, D.A. 2000. Symbiosis and mixotrophy among pelagic microorganisms. In: Kirchman, D.L. (Ed.), *Microbial ecology of the oceans*, John Wiley & Sons, Inc., New York, pp. 495-523.

Caron, D.A., E.L. Lim, M.R. Dennett, R.J. Gast, C. Kosman and E.F. DeLong. 1999. Molecular phylogenetic analysis of the heterotrophic chrysophyte genus *Paraphysomonas*, and the design of rRNA-targeted oligonucleotide probes for two species. *J. Phycol.* 35: 824-837.

More Info:

<http://www.usc.edu/assets/college/faculty/profiles/43.html>

http://www.usc.edu/dept/LAS/biosci/Caron_lab/index.html

http://www.usc.edu/dept/LAS/biosci/Caron_lab/dave.html