



**Christopher A. Scholin, PhD**

***Biologist* (Monterey Bay Aquarium Research Institute)**

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

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## **Education**

- **Massachusetts Institute of Technology - Woods Hole Oceanographic Institution**  
**Joint Program in Biological Oceanography**  
Field of Study: Application of molecular biological methods to the study of toxic dinoflagellate population biology  
Dates Attended: 6/87 - 11/93  
Degree: Ph.D. (Dr. D.M. Anderson, thesis supervisor)
- **Duke University Graduate School**  
Department of Microbiology and Immunology  
Field of Study: Molecular Biology  
Dates attended: 8/84 - 5/86  
Degree: M.A.

- **University of California, Santa Barbara**  
Department of Biology  
Fields of Study: Aquatic Biology, Environmental Studies, Microbiology, Molecular Biology  
Dates attended: 9/81 - 6/84  
Degree: B.A. (Hons.)
- **University of Missouri, Columbia**  
Department of Forestry and Wildlife  
Field of Study: General Biology  
Dates attended: 8/79 - 8/81

### Research Interests

Development and application of species-specific DNA probes and novel instrumentation for the detection and quantification of harmful algal bloom species.

### Representative Publications

Scholin, C.A., E. Vrieling, L. Peperzak, L. Rhodes and P. Rublee. 2003. Detection of HAB species using lectin, antibody and DNA probes. In: Hallegraeff, G.M., Anderson, D.M., Cembella, A.D. and Enevoldsen, H.O. [Eds.]. *Manual on Harmful Marine Microalgae*. IOC Manuals and Guides, UNESCO (in press)

Tyrrell, J.V., L.B. Connell and C.A. Scholin. 2002. Monitoring for *Heterosigma akashiwo* using a sandwich hybridization assay. *Harmful Algae* 1:205-214.

Peperzak, L., B. Sandee, C. Scholin, P. Miller and L. Van Nieuwerburgh. 2001. Application and flow cytometric detection of antibody and rRNA probes to *Gymnodinium mikimotoi* (Dinophyceae) and *Pseudo-nitzschia multiseriis* (Bacillariophyceae). In: G. M. Hallegraeff, S. I. Blackburn, C. J. Bolch and R. J. Lewis [Eds.]. *Harmful Algal Blooms 2000*. IOC, UNESCO, pp 206-209.

Rhodes, L., C.A. Scholin, J.V. Tyrrell, J. Adamson and K. Todd, K. 2001. The integration of DNA probes into New Zealand's routine phytoplankton monitoring programs. In: G. M. Hallegraeff, S. I. Blackburn, C. J. Bolch and R. J. Lewis (eds). *Harmful Algal Blooms 2000*. Proc. 9th Int. Conf. Harmful Algal Blooms, Paris, Intergovernmental Oceanographic Commission of UNESCO, 518 pp.

Tyrrell, J.V., C.A. Scholin, P.R. Bergquist and P.L. Bergquist. 2001. Detection and enumeration of *Heterosigma akashiwo* and *Fibrocapsa japonica* (Raphidophyceae) using rRNA-targeted oligonucleotide probes. *Phycologia* **40**: 457-467.

Rhodes, L.L., J. Adamson, and C. Scholin. 2000. *Pseudo-nitzschia multistriata* (Bacillariophyceae) in New Zealand. *New Zealand Journal of Marine and Freshwater Research* **34**:463-467.

Miller, P.E. and C.A. Scholin. 2000. On detection of *Pseudo-nitzschia* species using rRNA-targeted probes: sample fixation and stability. *Journal of Phycology* **36**: 238-250

More Info: (web site links)

<http://www.mbari.org/staff/scholin/publications.htm>

<http://www.mbari.org/staff/scholin>