

Rachel Noble, Ph.D.

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Rachel Noble's research program bridges environmental microbiology and marine microbial ecology. A main thread of Dr. Noble's work is the application of novel molecular techniques for applied and basic science. She has developed a range of rapid water quality test methods, including those for E. coli, Enterococcus, and Vibrio species and studies the dynamics of microbial contaminants contributed through stormwater runoff to high priority recreational and shellfish harvesting waters. A specific interest is conducting research to partition anthropogenic inputs from reservoir populations in coastal ecosystems, thereby permitting development of accurate models.

Biotechnology, Research, Education/Learning

stormwater, E. Coli, Water Treatment, Microbial Contaminants, Viruses, Marine Biology, Pathogens, Marine Bacteria, Coastal Ecosystems, Waterborne Illnesses, Seafood Safety, Fluorescence Microscopy, Cell Culture, Microscopy, Biochemistry, Water Quality Testing, Molecular Biology, Microbial Ecology, Microbiology, Environmental Science

University of Southern California

Ph.D. Marine Science

Carnegie Mellon University

B.S. Biology

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