

Shell Disease Proposals Funded

Research	Categories	Investigators	Institution
Environmental stress and susceptibility to shell disease – An assessment of structural deficiencies in shell formation at increased temperatures.	Affect of/on shell structure Microbial community	Dr. Michael Tlusty Dr. Roxanna Smolowitz Dr. Andrei Chistoserdov	New England Aquarium Marine Biological Laboratory University of Louisiana
Analysis of environmental contaminants in shell diseased versus non-shell diseased lobsters	Contaminants	Dr. Lawrence LeBlanc	University of Maine, School of Marine Science
A possible role of alkylphenols in lobster epizootic shell disease	Affect of/on shell structure Contaminants	Dr. Hans Laufer	University of Connecticut
Microbiology of shell disease: environmental sources and diversity	Microbial community	Dr. Andrei Chistoserdov Dr. Michael Tlusty Dr. Roxanna Smolowitz Dr. Darryl Felder	University of Louisiana New England Aquarium MBL, Veterinary Science University of Louisiana
Characterization of the exoskeletal microbial communities and host immune responses associated with epizootic shell disease in lobsters	Microbial community Immune systems	Dr. Alistair Dove Dr. Bassem Allam Dr. Anne McElroy Dr. Gordon Taylor	Stony Brook University
Etiological and mortality studies into epizootic shell disease of the American lobster	Affect of/on shell structure Microbial communities Immune systems Mortality Progression of lesions	Dr. Jeffrey Shields Dr. Patrick Gillevet	Virginia Institute of Marine Science, Environmental and Aquatic Animal Health George Mason University, Environmental Sciences and Policy

A molecular approach to understanding lobster shell disease	Genetics-gene expression	Dr. Tim Verslycke Dr. John Stegeman Dr. Judith McDowell	Woods Hole Oceanographic Institution, Biology
Mineralization of the lobster exoskeleton as a target of shell disease	Affect of/on shell structure	Dr. Joseph Kunkel	UMass Amherst, Biology
The spread of lobster shell disease: genetic and social barriers	Behavior Genetics	Dr. Jelle Atema Dr. Roxanna Smolowitz Dr. Steven Roberts Dr. Gabriele Gerlach	Boston University Marine Biological Laboratory Marine Biological Laboratory Marine Biological Laboratory