



# Physiological, Developmental and Behavioral Effects of Marine Pollution

By Judith S Weis

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Synthesizing decades of work, but up-to-date, this book focuses on organism-level responses to pollutants by marine animals, mainly crustaceans, molluscs, and fishes. Emphasizing effects on physiological processes (feeding/digestion, respiration, osmoregulation), life-cycle (reproduction [including endocrine disruption], embryo development, larval development, developmental processes later in life (growth, regeneration, molting, calcification, cancer), and behaviour, the book also covers bioaccumulation and detoxification of contaminants, and the development of tolerance. The major pollutants covered are metals, organic compounds (oil, pesticides, industrial chemicals), nutrients and hypoxia, contaminants of emerging concern, and ocean acidification. Some attention is also devoted to marine debris and noise pollution.?

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#### **About the Author**

Dr. Judith S. Weis is a Professor of Biological Sciences at Rutgers University, Newark. She received her bachelor's degree from Cornell University, and MS and PhD from New York University. Her research focuses mostly on estuarine ecology and ecotoxicology, and she has published over 200 refereed scientific papers, as well as a book on salt marshes (“Salt Marshes: A Natural and Unnatural History”) in 2009 and a book on fish (“Do Fish Sleep?”) published in 2011.

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