

"This volume summarizes crucial aspects of crustacean physiology and thereby illustrates how and why species from this successful group have become model species for studying the well-being and performance of marine invertebrates. As such, this volume will serve the experienced researcher as a source of knowledge and literature. It will also inform students of the ecophysiology of this interesting group for years to come."

—Hans-Otto Pörtner, Alfred Wegener Institute for Polar and Marine Research

"The editors have assembled a superb team of established people who cover in 15 chapters a remarkable spectrum of topics—from endocrinology and metabolism to genomics and environmental stress to endocrine disruption. This rich synthesis presents a priceless resource as our world embarks upon a storm of environmental change."

—John Pearse, University of California, Santa Cruz

"Research with crustaceans has reflected the well-known August Krogh Principle: choose the right organism for the question at hand to enable the clearest and most definitive answers to be obtained. This volume comprises excellent, wide-ranging, and up-to-date reviews by leaders in the field of physiology of Crustacea."

—George Somero, Hopkins Marine Station, Stanford University

The Crustacea is one of the dominant invertebrate groups, displaying staggering diversity in form and function, and spanning the full spectrum of Earth's environments. Crustaceans are increasingly used as model organisms in all fields of biology, as few other taxa exhibit such a variety of body shapes and adaptations to particular habitats and environmental conditions. *Physiology* is the fourth volume in *The Natural History of the Crustacea* series, and the first book in over twenty-five years to provide an overview of the comparative physiology of crustaceans. An understanding of physiology is crucial to a comprehension of the biology of this fascinating invertebrate group. Written by a group of internationally recognized experts studying a wide range of crustacean taxa and topics, this volume synthesizes current research in a format that is accessible to a wide scientific audience.

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