

OSMOTIC AND IONIC REGULATION

Cells and Animals

"It is indicative of the growth of the subject that as time passes the number of authors needed to review the subject grows exponentially. The time is ripe for a new survey of the subject and Dr. Evans is to be congratulated on the expert crew that he has recruited."

—From the foreword by W.T.W. Potts

In the 40 years since the classic review of osmotic and ionic regulation written by Potts and Parry, there has been astonishing growth in scientific productivity, a marked shift in the direction and taxonomic distribution of research, and amazing changes in the technology of scientific research. *Osmotic and Ionic Regulation: Cells and Animals* not only fills a gap in the literature, but delineates the new approaches, outlooks, and findings that define how the field has changed. Providing the first comprehensive summary of the fundamentally important mechanisms of ionic and osmotic regulation in 40 years, it ties the new findings to the older work of Potts and Parry.

Features:

- Reviews everything from the basic anatomy and ecophysiology to the molecular mechanism and controls
- Serves as an access point into the primary literature through extensive chapter referencing
- Covers 10 important groups within the animal kingdom, giving the book a broad range of coverage
- Provides the foundation for a quantitative understanding of osmoregulatory phenomena
- Includes a thorough discussion of the physiology and molecular biology of the membrane transporters

This book, written by accepted leaders in this field dealing with the ecology to the molecular biology of the processes and the taxa, provides background information in a broad range of disciplines such as zoology, evolutionary biology, physiology, ichthyology, aquaculture, marine biology, entomology, herpetology, avian biology, human nephrology, conservation biology, and pharmacology.



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