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Physiology And Form Of Fish Circulation



Synopsis

This book gives a concise account of the physiology and form of the fish circulatory system. The emphasis is primarily on function, but details of structure have been included. Following a revision of ideas on hemodynamics, attention is focused on the heart as the primary pump in the fish circulatory system. The fine structure and the electrical and ionic events of cardiac myocytes are described and the major events of the cardiac cycle are outlined. The structure of the peripheral vessels then follow and attention is devoted to the circulation in certain special areas such as the gills, the renal portal system, and the secondary blood system. There are also chapters devoted to the blood and the hemopoietic tissues and an account is given of the different types of retial systems that concentrate oxygen or heat in various parts of the body. Following a description of the autonomic nervous system, the circulatory responses to exercise and hypoxia are described. The book concludes with a discussion on the circulation of hagfish and how it illuminates our understanding of the functional and structural evolution of the circulatory system.

Book Information

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Customer Reviews

"Undergraduate and graduate students of physiology, zoology, and marine science will find this text to be a valuable reference source." Biological Abstracts"...a reasonably brief account of the components of the circulatory system and their functions, with chapters on the heart, blood, complex circulatory patterns, and effects of exercise, among others." Choice"...Geoffrey Satchell is to be commended for having prepared an excellent physiological and anatomical perspective on the fish

circulatory system." Alan G. Heath, Transactions of the American Fisheries Society"...a complete and up-to-date review of blood and circulation in fishes....The complete treatment of the material and the readable style should make this book a standard reference during the current decade." Copeia"...The aim of this book is to provide a comprehensive review of the physiology of the fish circulatory system. In my opinion, it has succeeded...very useful as a reference textbook...will serve as a valuable source of reference for established researchers in comparative physiology." The Quarterly Review of Biology

This book is well illustrated and written in a style comprehensible to anyone with a basic knowledge of the biological and physical sciences. Both undergraduate and graduate students of physiology, zoology and marine science will find this an invaluable reference text.

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