

Physiologists and other integrative biologists have embraced the zebrafish as a powerful model organism to study research topics as diverse as cardio-respiratory function, neurobiology, toxicology and even human disease. This volume, aptly titled *Zebrafish*, is the first comprehensive compilation of chapters outlining the physiology of this extensively studied and fascinating animal. *Zebrafish* will serve as a one-stop resource not only for traditional fish physiologists but also for biomedical researchers, toxicologists and developmental biologists. The subject areas covered in this volume represent key domains of modern physiological research, which include endocrinology, respiration, cardiovascular function, ionic and acid-base regulation, neurobiology, hearing and vision. In addition to chapters on fundamental physiological systems, this book will summarize the tools used to study zebrafish physiology and the applicability of zebrafish for studies of human disease and aquatic toxicology. This authoritative review, which represents the contributions of the world's leading researchers, is destined to emerge as the single most important resource for students and researchers seeking information on zebrafish.

Key Features

- The only one-stop resource offering authoritative and comprehensive reviews on the physiology of zebrafish
- Of keen interest to current readers of *Fish Physiology* while also appealing to biomedical researchers, toxicologists and developmental biologists
- Includes chapters on the genetic tools used to study zebrafish biology and applications of zebrafish research to aquatic toxicology and human disease
- Essential reading for all students and researchers studying zebrafish – it is the gold standard reference for zebrafish biology

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