Fish Physiology: Zebrafish, Vol 29

Description: This cutting-edge resource includes up-to-date information on zebrafish physiology and the tools used to study it, not only as a model species for studies of other vertebrates but with application for studies of human disease and aquatic toxicology. The utility of zebrafish for physiological research is based on several key features including i) a “fully” sequenced genome, ii) rapid (~3 month) generation times, iii) their capacity to produce large numbers of externally fertilized eggs, iv) optical transparency of embryos and larvae, and v) the applicability of reverse and forward genetics to assess gene function. Gene knockdown in embryos and the production of transgenic strains are now standard techniques being used to assess physiology. This book will be of keen interest not only to the typical readers of Fish Physiology but also to biomedical researchers, toxicologists and developmental biologists.

Key Features
Integrates and synthesizes the biology of the zebrafish under one cover
Features contributions from the leading researchers in their fields
Reaches a wider audience of researchers and biologists with its broad inclusion of subjects relating to zebrafish physiology

Contents:
Genetic Tools
Organisation and Physiology of the Zebrafish Nervous System
Zebrafish Vision
The Zebrafish Inner Ear
Endocrinology of Zebrafish
Developmental Physiology of the Zebrafish Cardiovascular System
Respiration
Ionic and Acid-Base Regulation
The Zebrafish as a Model for Human Disease
Perspectives on Zebrafish as a Model in Environmental Toxicology

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