

# Fish Larval Physiology

*Editors*

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## ABOUT THE BOOK

To study physiology is to examine how organisms have evolved solutions to the business of living in an inanimate world. Our world is and has always been dominated by physical and chemical forces. A physicist might tell us that all things are physical, while a chemist is more concerned with the elementary nature of reactions. A physical chemist sees the bonds between these views, and a biochemist draws out the organic symphony of the vital pathways. A structural biologist adds shape to the chemical building blocks of life, while a molecular biologist tinkers with these structures.

This book is intended as a resource for students and researchers interested in developmental biology and physiology and specifically addresses the larval stages of fish. Fish larvae (and fish embryos) are not small juveniles or adults. Rather they are transitional organisms that bridge the critical gap between the single-celled egg and sexually immature juvenile. Fish larvae represent the stage of the life cycle that is used for differentiation, feeding and distribution.

This book aims at providing a single-volume treatise that explains how fish larvae develop and differentiate, how they regulate salt, water and acid-base balance, how they transport and exchange gases, acquire and utilise energy, how they sense their environment, and move in their aquatic medium, how they control and defend themselves, and finally how they grow up.

## CONTENTS

### Part 1: Ontogeny

- Pattern Formation: *Thomas E. Hall*
- Pigmentation: *Robert N. Kelsh and Darvid Parichy*
- Bioluminescence: *Andrey V. Suntsov, Edith A Widder and Tracey T. Sutton*

### Part 2: Respiration & Homeostasis

- Gas Exchange: *Bernd Pelster*
- Cardiovascular Anatomy and Physiology: *Warren Burggren and Brian Bagatto*
- Osmo- and Ionoregulation: *Toyoji Kaneko and Junya Hiroi*
- Acid-base balance: *Colin J. Brauner*

### Part 3: Nutrition and Energy

- Digestion: *Ivar Rønnestad and Sofia Morais*
- Nitrogen Excretion: *Bendik F. Terjesen*

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**Part 4:** Sensory Physiology

- Mechanoreception: *Patricia M. Pankhurst*
- Chemoreception: *Kjell B. Døving* and *Alexander Kasumyan*
- Photoreception: *Ellis R. Loew* and *Christina M. Wahl*
- Electroreception: *Frank Kirschbaum* and *Jean-Pierre Denizot*
- Magnetoreception: *Krzysztof Formicki*

**Part 5:** Movement

- Buoyancy: *John J. Govoni* and *Richard B. Forward Jr.*
- Swimming and Muscle: *Ulrike K. Müller*

**Part 6:** Control and Defense

- Enteric Control: *Anna Holmberg*, *Susanne Holmgren* and *Catharina Olsson*
- Immunology: *Agustín G. Zapata* and *Alfonso Cortés*

**Part 7:** Functional Changes in Form

- Metamorphosis: *D.M. Power*, *N. Silva* and *M.A. Campinho*
  - Smoltification: *Sigurd O. Stefansson*, *Björn Th Björnsson*, *Lars O.E. Ebbesson* and *Stephen D. McCormick*
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