

# Contents

Contributors .....	ix
Series Preface .....	xi
Volume Preface.....	xiii
1. Introduction to Fish Bioacoustics .....	1
RICHARD R. FAY, ARTHUR N. POPPER, AND JACQUELINE F. WEBB	
2. Hearing and Acoustic Behavior: Basic and Applied Considerations ...	17
ARTHUR N. POPPER AND CARL R. SCHILT	
3. Structures and Functions of the Auditory Nervous System of Fishes .....	49
RICHARD R. FAY AND PEGGY L. EDDS-WALTON	
4. Evolution of Peripheral Mechanisms for the Enhancement of Sound Reception.....	99
CHRISTOPHER B. BRAUN AND TERRY GRANDE	
5. Bioacoustics and the Lateral Line System of Fishes .....	145
JACQUELINE F. WEBB, JOHN C. MONTGOMERY, AND JOACHIM MOGDANS	
6. Orientation to Auditory and Lateral Line Stimuli.....	183
OLAV SAND AND HORST BLECKMANN	
7. Multipole Mechanisms for Directional Hearing in Fish .....	233
PETER H. ROGERS AND DAVID G. ZEDDIES	
8. Vocal–Acoustic Communication: From Neurons to Behavior.....	253
ANDREW H. BASS AND FRIEDRICH LADICH	
9. Active and Passive Acoustics to Locate and Study Fish.....	279
DAVID A. MANN, ANTHONY D. HAWKINS, AND J. MICHAEL JECH	
Index .....	311