TABLE OF CONTENTS

Preface

- 1:Prolegomena
- 2:A very brief history of respiratory biology
- 3:A Primer on respiratory physiology
- 4:Structure, function, and evolution of respiratory proteins
- 5:Coping with extremes
- 6:Respiratory faculties of aquatic invertebrates
- 7:Respiratory faculties of amphibious and terrestrial invertebrates
- 8:Control of breathing in invertebrates
- 9:The evolution of water-breathing respiratory faculties in invertebrates
- 10:The evolution of air-breathing respiratory faculties in invertebrates
- 11:Respiratory faculties of aquatic craniotes
- 12:Respiratory faculties of amphibious and terrestrial craniotes
- 13:Control of breathing in craniotes
- 14:The evolution of water-breathing respiratory faculties in craniotes
- 15: The evolution of air-breathing respiratory faculties in craniotes
- 16:The Bottom Line.