

Brief Contents

- CHAPTER 1** Introduction 1
- CHAPTER 2** Systematics, Phylogeny, and Classifications 27
- CHAPTER 3** Introduction to the Animal Kingdom: Animal Architecture and Body Plans 43
- CHAPTER 4** Introduction to the Animal Kingdom: Development, Life Histories, and Origin 91
- CHAPTER 5** Phylum Porifera: The Sponges 119
- CHAPTER 6** Two Enigmatic Phyla: Placozoa and Ctenophora (The Comb Jellies) 165
- CHAPTER 7** Phylum Cnidaria: Anemones, Corals, Jellyfish, and Their Kin 185
- CHAPTER 8** A Brief Introduction to the Bilateria and Its Major Clades 245
- CHAPTER 9** Phylum Xenacoelomorpha: Basal Bilaterians 249
- CHAPTER 10** Protostomia, Spiralia, and the Phylum Dicyemida 273
- CHAPTER 11** Gnathifera: The Phyla Gnathostomulida, Rotifera (including Acanthocephala), Micrognathozoa, and Chaetognatha 281
- CHAPTER 12** Platytrichoza and Two Enigmatic Phyla: Entoprocta and Cycliophora 311
- CHAPTER 13** Introduction to the Lophotrochozoa, and the Phylum Mollusca 321
- CHAPTER 14** Phylum Nemertea: The Ribbon Worms 397
- CHAPTER 15** Phylum Annelida: The Segmented (and Some Unsegmented) Worms 415
- CHAPTER 16** The Lophophorates: Phyla Phoronida, Bryozoa, and Brachiopoda 487
- CHAPTER 17** Rousphozoa: The Phyla Platyhelminthes (Flatworms) and Gastrotricha (Hairy-Bellied Worms) 519
- CHAPTER 18** Introduction to Ecdysozoa: Scalidophora (Phyla Kinorhyncha, Priapula, Loricifera) 563
- CHAPTER 19** Nematoida: Phyla Nematoda and Nematomorpha 579
- CHAPTER 20** Panarthropoda and the Emergence of the Arthropods: Tardigrades, Onychophorans, and the Arthropod Body Plan 607
- CHAPTER 21** Phylum Arthropoda—Subphylum Crustacea: Crabs, Shrimps, and Their Kin 659
- CHAPTER 22** Phylum Arthropoda—Subphylum Hexapoda: Insects and Their Kin 735
- CHAPTER 23** Phylum Arthropoda—Subphylum Myriapoda: Centipedes, Millipedes, and Their Kin 785
- CHAPTER 24** Phylum Arthropoda: Subphylum Chelicerata 801
- CHAPTER 25** Introduction to Deuterostomia, and the Phylum Hemichordata 857
- CHAPTER 26** Phylum Echinodermata : Starfish, Sea Urchins, Sea Cucumbers, and their Kin 873
- CHAPTER 27** Phylum Chordata: Cephalochordata and Urochordata 911
- CHAPTER 28** Perspectives on Invertebrate Phylogeny 935