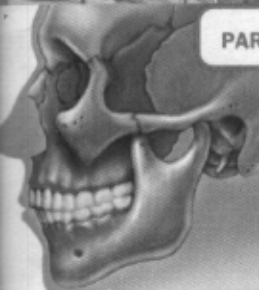


Brief Contents



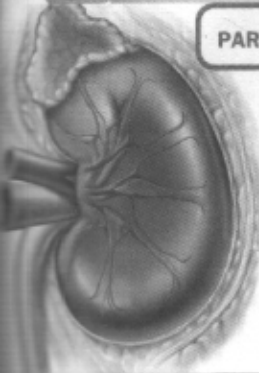
PART I The Organization of the Body

- 1 Humans in the World of Biology 1
- 1a SPECIAL TOPIC: Becoming a Patient: A Major Decision 13
- 2 Chemistry Comes to Life 20
- 3 The Cell 42
- 4 Body Organization and Homeostasis 64



PART II Control and Coordination of the Body

- 5 The Skeletal System 85
- 6 The Muscular System 100
- 7 Neurons: The Matter of the Mind 113
- 8 The Nervous System 126
- 8a SPECIAL TOPIC: Drugs and the Mind 142
- 9 Sensory Systems 150
- 10 The Endocrine System 171
- 10a SPECIAL TOPIC: Diabetes Mellitus 190



PART III Maintenance of the Body

- 11 Blood 198
- 12 The Cardiovascular and Lymphatic Systems 213
- 12a SPECIAL TOPIC: Cardiovascular Disease 232
- 13 Body Defense Mechanisms 239
- 13a SPECIAL TOPIC: Infectious Disease 259
- 14 The Respiratory System 268
- 15 The Digestive System and Nutrition 286
- 15a SPECIAL TOPIC: Food Safety and Defense 314
- 16 The Urinary System 322



PART IV Reproduction and Development

- 17 Reproductive Systems 342
- 17a SPECIAL TOPIC: Sexually Transmitted Diseases and AIDS 362
- 18 Development throughout Life 372
- 18a SPECIAL TOPIC: Autism Spectrum Disorder 393



PART V Genes and DNA

- 19 Chromosomes and Cell Division 400
- 19a SPECIAL TOPIC: Stem Cells—A Repair Kit for the Body 418
- 20 Genetics and Human Inheritance 425
- 21 DNA and Biotechnology 442
- 21a SPECIAL TOPIC: Cancer 463



PART VI Evolution and Ecology

- 22 Evolution and Our Heritage 476
- 23 Ecology, the Environment, and Us 497
- 24 Human Population, Limited Resources, and Pollution 514