

CONTENTS

- PREFACE, vii
- FURTHER READING, ix
- 1 AN INTRODUCTION TO BIOCHEMISTRY AND CELL BIOLOGY, 1
 - 2 BIOCHEMICAL INVESTIGATIONS IN CLINICAL MEDICINE, 11
 - 3 WATER, SODIUM AND POTASSIUM, 23
 - 4 HYDROGEN ION HOMOEOSTASIS AND BLOOD GASES, 51
 - 5 THE KIDNEYS, 73
 - 6 THE LIVER, 99
 - 7 THE GASTROINTESTINAL TRACT, 119
 - 8 CLINICAL NUTRITION, 133
 - 9 THE HYPOTHALAMUS AND THE PITUITARY GLAND, 147
 - 10 THE ADRENAL GLANDS, 167
 - 11 THE THYROID GLAND, 185
 - 12 THE GONADS, 201
 - 13 DISORDERS OF CARBOHYDRATE METABOLISM, 215
 - 14 CALCIUM, PHOSPHATE AND MAGNESIUM, 245
 - 15 BONES AND JOINTS, 263
 - 16 PLASMA PROTEINS AND ENZYMES, 275
 - 17 LIPIDS, LIPOPROTEINS AND CARDIOVASCULAR DISEASE, 293
 - 18 MUSCLES, NERVES AND PSYCHIATRIC DISORDERS, 315
 - 19 INHERITED METABOLIC DISEASES, 325
 - 20 DISORDERS OF HAEMOPROTEINS, PORPHYRINS AND IRON, 339
 - 21 METABOLIC ASPECTS OF MALIGNANT DISEASE, 351
 - 22 THERAPEUTIC DRUG MONITORING AND CHEMICAL ASPECTS OF TOXICOLOGY, 365
 - 23 CLINICAL CHEMISTRY AT THE EXTREMES OF AGE, 381
- APPENDIX ADULT REFERENCE RANGES, 391
- INDEX, 393

William Marshall
Andrew Day
Marta Lapley