

Contents

Foreword	vii
<i>A. Douglas Kinghorn</i>	
Preface	ix

PART A FUNDAMENTALS OF PHARMACOGNOSY 1

SECTION 1 PHYTOTHERAPY AND PHARMACOGNOSY

1. Importance of plants in modern pharmacy and medicine 3
2. Pharmacognosy and its history: people, plants and natural products 10

SECTION 2 BASIC PLANT BIOLOGY

3. General principles of botany: morphology and systematics 25
4. Families yielding important phytopharmaceuticals 33
5. Ethnobotany and ethnopharmacy 49

SECTION 3 NATURAL PRODUCT CHEMISTRY

6. Natural product chemistry 61
7. Methods in natural product chemistry 106
8. Anticancer natural products 129

SECTION 4 PHARMACEUTICALS AND NUTRACEUTICALS DERIVED FROM PLANT EXTRACTS

9. Production, standardization and quality control 144
10. Toxicity of herbal constituents 162
11. What makes phytomedicines unique? 166

SECTION 5 MEDICINAL PLANTS IN SELECTED HEALTHCARE SYSTEMS

12. Traditional systems of herbal medicine 175
13. Complementary and Alternative medicine 189

**PART B IMPORTANT NATURAL PRODUCTS
AND PHYTOMEDICINES USED IN
PHARMACY AND MEDICINE 201**

- 14. The gastrointestinal and biliary system 203
- 15. The cardiovascular system 219
- 16. The respiratory system 227
- 17. The central nervous system 241
- 18. Infectious diseases 252
- 19. The endocrine system 266
- 20. The reproductive tract 274

- 21. The musculoskeletal system 277
- 22. The skin 285
- 23. The eye 291
- 24. Ear, nose and orthopharynx 293
- 25. Miscellaneous supportive therapies for stress,
ageing, cancer and debility 296

Epilogue – a personal view 304

J. David Phillipson

Index 311