

Contents

About the editors — V

Preface — VII

List of contributors — XI

Part I: General

Mayuri Napagoda, D. S. A. Wijesundara

1 Medicinal plants as sources of novel therapeutics: the history, present, and future — 3

Thushara Diyabalanage

2 Plant secondary metabolites as prospective pharmaceuticals and cosmeceuticals — 19

Part II: Introduction to plant secondary metabolites

Chandani Ranasinghe

3 Plant phenolic compounds — 43

Kanchana Wijesekera, Aruna S. Dissanayake

4 Terpenes — 65

Kanchana Wijesekera, Sewwandi Subasinghe

5 Alkaloids — 95

K. G. N. P. Piyasena, M. M. Qader

6 Saponins — 115

Part III: Specific topics

Sathya Sambavathas, Nilupa R. Amarasinghe, Lalith Jayasinghe,

Yoshinori Fujimoto

7 Acetylcholinesterase inhibitory activity of spices and culinary herbs — 139

Chamika Liyanaarachchi, Mayuri Napagoda, Sanjeева Witharana,
Lalith Jayasinghe

8 Photoprotective potential in medicinal plants — 157

Mayuri Napagoda

9 Poisonous plants and their toxic metabolites — 173

Mayuri Napagoda

10 Quality and safety of herbal medicinal products — 189

Jagadesswar Reddy Thota, Ravi Kumar Maddula, Sukanya Pandeti,
Naga Veera Yerra

11 Advances in extraction and analysis of natural products — 203

Index — 221