Contents

| Pref | ace | | 3 |
|-------------------------------|--------------------|---|-----|
| Cha | pter 1. Alkaloids | | 9 |
| 1.1 | Pseudopelletierine | From the root-bark of the pomegranate tree | 9 |
| 1.2 | Colchicine | From the seeds of the autumn crocus | 29 |
| 1.3 | Capsaicin | From Kenyan "African Bird's Eye Chilies" | 49 |
| Cha | pter 2. Coloured C | Compounds | 69 |
| 2.1 | Thymoquinone | From the oil of the seeds of black caraway | 69 |
| 2.2 | Berberine Chloride | From the bark of the common barberry | 89 |
| 2.3 | Carminic acid | From dried cochineal | 109 |
| 2.4 | Safflomin A | From flowers of the safflower | 129 |
| 2.5 | Chlorophyll a | From deep frozen spinach leaves | 151 |
| Cha | pter 3. Carbohydr | rates and Glycosides | 175 |
| 3.1 | Raffinose | From the seeds of blue lupins | 175 |
| 3.2 | Fraxin | From the shredded bark of the ash tree | 195 |
| 3.3 | Stevioside | From the dried leaves of Stevia rebaudiana | 215 |
| Cha | pter 4. Terpenoids | | 235 |
| 4.1 | Linalool | From Brazilian rosewood oil | 235 |
| 4.2 | Camphor | From camphor tree oil | 255 |
| 4.3 | Cantharidin | From Spanish fly Lytta vesicatoria | 275 |
| 4.4 | Artemisinin | From the dried leaves of the annual mugwort | 291 |
| 4.5 | Diosgenin | From an extract of the roots of Mexican yams | 311 |
| 4.6 | Friedelin | From cork from the bark of the cork-oak | 331 |
| 4.7 | Boswellic acid | From frankincense, the resin of the Arabian olibanum tree | 353 |
| Chapter 5. Aromatic Compounds | | | |
| 5.1 | Sinensetin | From cold-pressed orange oil | 375 |
| 5.2 | Rosmarinic acid | From the dried leaves of lemon balm | 391 |
| Cha | pter 6. Quantum (| Chemical Calculation | 411 |

Contents

| Appendix | |
|-------------------------------|-----|
| Spectroscopic Experiments | 417 |
| External Photographic Credits | 418 |
| Text Credits | 419 |
| Chemical Substance Index | 421 |
| General Subject Index | 424 |
| Name Index | |