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## Contents

Preface .....	xv
Contributors .....	xvii
Chapter 1 Introduction .....	1
Chapter 2 Extraction and Isolation of Natural Products .....	5
Section 1 Extraction of Natural Products .....	5
1.1 Traditional solvent extraction methods .....	5
1.2 Water steam distillation .....	6
1.3 Supercritical fluid extraction .....	6
1.4 Solid phase extraction .....	6
Section 2 Separation of Natural Products .....	6
2.1 Classical separation methods .....	6
2.1.1 Solvent partition .....	7
2.1.2 Fractional distillation .....	7
2.1.3 Precipitation .....	7
2.1.4 Membrane separation .....	8
2.1.5 Sublimation .....	8
2.1.6 Crystallization .....	8
2.1.7 Removal of impurities .....	8
2.2 Chromatographic separation methods .....	9
2.2.1 Basic principles .....	9
2.2.2 Classification of chromatography .....	9
2.2.3 Liquid-solid chromatographic separation .....	10
2.2.4 Countercurrent chromatography .....	20
Section 3 Concluding Remarks .....	23
Bibliography .....	23
References .....	24
Chapter 3 Chemistry of Fungal Products .....	27
Section 1 Introduction .....	27
Section 2 Bioactive Fungal Metabolites .....	30
2.1 Terpenes .....	31
2.2 Steroids .....	32
2.3 Polyketides .....	33
2.4 Phenols, quinones, and other aromatic compounds .....	33
2.5 Polyacetylenes .....	34
2.6 Alkaloids .....	35
2.7 Macrolides .....	35
2.8 Peptides, diketopiperazines, depsipeptides .....	36
2.9 Heterocyclic containing compounds .....	38
2.10 Miscellaneous secondary metabolites .....	38
Section 3 Mycotoxins from Fungi .....	39
Section 4 Isolation and Structure Studies of Fungal Products .....	40
4.1 Polysaccharide preparations of Chinese traditional medicine <i>Poria cocos</i> (Fu-Ling) and <i>Polyporus umbellatus</i> (Zhu-Ling) .....	42
4.1.1 Polysaccharide extract of <i>Poria cocos</i> .....	42

4.1.2 Polysaccharide extract of <i>Polyporus umbellatus</i> .....	42
4.2 Bioactive triterpenes from polypore <i>Ganoderma lucidum</i> Ling-Zhi.....	43
4.2.1 Isolation of lucidinic acid N and methyl lucidenate F.....	43
4.2.2 Structure elucidation of lucidinic acid N.....	43
4.3 Undecylresorcinol dimer from <i>Coleophoma</i> sp. ....	44
4.3.1 Isolation of undecylresorcinol dimer.....	44
4.3.2 Structure elucidation of undecylresorcinol dimer.....	45
4.4 Balanol from the fungi <i>Verticillium balanoides</i> and <i>Acremonium</i> sp. ....	46
4.4.1 Isolation of balanol from <i>Verticillium balanoides</i> and <i>Acremonium</i> sp. ....	46
4.4.2 Structure elucidation of balanol.....	46
4.5 Pericosine A from <i>Periconia byssoides</i> OUPS-N133.....	48
4.5.1 Isolation of pericosine A.....	48
4.5.2 Structure elucidation of pericosine A.....	48
Section 5 Perspectives.....	49
References.....	50
<b>Chapter 4 Alkaloids.....</b>	55
Section 1 General .....	55
Section 2 Characterization, Identification and Isolation .....	56
Section 3 Classification .....	58
3.1 Isoquinolines .....	58
3.1.1 Simple isoquinoline alkaloids .....	58
3.1.2 Benzylisoquinoline alkaloids .....	59
3.1.3 Bisbenzylisoquinoline alkaloids.....	59
3.1.4 Aporphine alkaloids.....	59
3.1.5 Protoberberine alkaloids .....	59
3.1.6 Protopine alkaloids .....	60
3.1.7 Emetine alkaloids .....	60
3.1.8 $\alpha$ -Naphthaphenanthridine alkaloids .....	61
3.1.9 Morphine alkaloids .....	61
3.2 Quinolines .....	61
3.3 Pyrrolidines .....	62
3.3.1 Simple pyrrolidine alkaloids .....	62
3.3.2 Pyrrolizidine alkaloids .....	63
3.3.3 Indolizidine alkaloids .....	63
3.3.4 Tropane alkaloids .....	64
3.3.5 <i>Stemona</i> alkaloids .....	64
3.4 Indoles .....	64
Section 4 Structural Investigations of Some Alkaloids .....	65
4.1 <i>Stemona</i> alkaloids .....	65
4.1.1 Stemotinine .....	66
4.1.2 Isostemotinine .....	67
4.1.3 Parvistemonine .....	68
4.2 Camptothecin and its analogues .....	71
4.3 Sinomenine and sinoacutine .....	74
4.4 Pyridone alkaloids—huperzine .....	75
4.4.1 Huperzines A and B .....	75
4.4.2 Total synthesis of huperzine A .....	76
4.4.3 Physiological activity of huperzine .....	76
Bibliography .....	77
References .....	78

<b>Chapter 5 Sesquiterpenoids .....</b>	81
Section 1 Chemical Properties, Isolation and Purification .....	81
Section 2 Spectroscopic Analysis of Sesquiterpenes .....	86
2.1 UV, IR and MS spectra .....	86
2.2 $^1\text{H}$ -NMR spectra of sesquiterpenes .....	87
2.2.1 Detection of acyl side chain .....	87
2.2.2 Detection of skeleton type .....	87
2.2.3 Analyzing patterns of oxygen atoms .....	87
2.2.4 Analysis of all vicinally connected protons .....	87
2.2.5 Stereochemical elucidation .....	87
2.3 $^{13}\text{C}$ -NMR of sesquiterpenes .....	88
Section 3 Artemisinin—Chemistry, Pharmacology, and Clinical Uses .....	90
3.1 Chemical properties of artemisinin .....	90
3.2 Spectra analysis of artemisinin .....	91
3.2.1 $^1\text{H}$ -NMR and $^{13}\text{C}$ -NMR spectra of artemisinin .....	91
3.2.2 HMQC and HMBC spectra .....	92
3.3 Pharmacology and clinical uses of artemisinin and its derivatives .....	93
3.4 Chemical modification and structural-activity relationship of artemisinin .....	93
Section 4 Recent Progress of Specific Sesquiterpenes .....	96
References .....	99
<b>Chapter 6 Diterpenes .....</b>	101
Section 1 Main Diterpene Skeletons .....	101
Section 2 Biogenesis .....	102
Section 3 Labdanes .....	103
Section 4 Clerodanes .....	106
Section 5 Pimaranes .....	108
Section 6 Abietanes .....	108
Section 7 Cassanes and Totaranes .....	110
7.1 Cassanes .....	110
7.2 Totaranes .....	111
Section 8 Rosanes .....	111
Section 9 Kauranes .....	112
9.1 C-20-non-oxygenated- <i>ent</i> -kauranes .....	112
9.2 C-20 oxygenated- <i>ent</i> -kauranes .....	113
9.3 Seco-kauranes .....	113
Section 10 Taxanes .....	115
10.1 Taxol .....	115
10.2 Taxotere .....	116
Section 11 Tiglanes, Ingenanes and Daphnanes .....	118
Section 12 Jatrophanes and Lathyranes .....	119
Section 13 Myrsinols and Euphorstcines .....	120
Section 14 Ginkgolides and Pseudolaric Acid .....	121
References .....	121
<b>Chapter 7 Saponins .....</b>	125
Section 1 Introduction .....	125
Section 2 Extraction and Isolation of Saponins .....	125
2.1 Chromatography using macroporous resin .....	125
2.2 Chromatography using silica gel .....	126
2.3 Reversed-phase chromatography .....	126
2.4 Liquid-liquid partition chromatography .....	126

Section 3 Structure Determination of Saponins .....	126
3.1 Cleavage of glycosidic bond .....	126
3.1.1 Acidic hydrolysis .....	127
3.1.2 Two-phase acid hydrolysis (mild acid hydrolysis) .....	127
3.1.3 Smith degradation .....	127
3.1.4 Enzymatic hydrolysis .....	127
3.1.5 Alkaline hydrolysis .....	128
3.2 Structure determination of saponins by chromatography .....	128
3.2.1 Silica gel thin-layer chromatography .....	128
3.2.2 Gas chromatography .....	128
3.3 Structure determination of saponins by spectroscopy .....	128
3.3.1 Mass spectrum .....	128
3.3.2 Nuclear magnetic resonance spectrum .....	129
Section 4 Biological Activity of Saponins .....	130
4.1 Anti-tumor and cytotoxic effects .....	130
4.2 Immunomodulatory activity .....	131
4.3 Antimicrobial effects .....	131
4.3.1 Antiviral activity .....	131
4.3.2 Antifungal activity .....	131
4.4 Cardiovascular activity .....	131
4.5 Anti-inflammatory, anti-exudative, and anti-edema effects .....	132
4.6 Other effects .....	132
Section 5 Triterpenoid Saponin .....	132
5.1 Triterpenoid .....	132
5.2 Main structural skeletons of triterpenoid saponins .....	132
5.2.1 Tetracyclic triterpenoids .....	132
5.2.2 Pentacyclic triterpenoids .....	136
5.3 Spectroscopic analysis of triterpenoids .....	138
5.3.1 Ultraviolet spectrum .....	138
5.3.2 Infrared spectrum .....	138
5.3.3 Mass spectrum .....	138
5.3.4 Nuclear magnetic resonance spectrum .....	138
Section 6 Steroidal Saponins .....	139
6.1 Steroidal aglycones .....	139
6.2 Spectroscopic analysis of steroidal aglycones .....	140
6.2.1 Ultraviolet spectrum .....	140
6.2.2 Infrared spectrum .....	140
6.2.3 Mass spectrum .....	140
6.2.4 Nuclear magnetic resonance spectrum .....	141
6.3 Spirostanol saponins .....	141
6.4 Furostanol saponins .....	142
6.5 Furospirostanol saponins .....	143
Bibliography .....	143
References .....	143
<b>Chapter 8 Amino Acids and Peptides .....</b>	147
Section 1 Amino Acids .....	147
1.1 Structure and classification of amino acids .....	147
1.2 Physical properties of amino acids .....	149
1.3 Chemical properties of amino acids .....	150
1.3.1 Acylation .....	150

1.3.2 Reaction with CO <sub>2</sub> .....	150
1.3.3 Formation of Schiff base .....	151
1.3.4 Alkylation .....	151
1.3.5 Reactions involving both amino and carboxyl groups .....	152
1.3.6 Interaction with metal ions .....	152
1.4 Purification and Characterization of Amino Acids .....	152
1.4.1 Color reaction .....	152
1.4.2 Techniques in isolation and analysis .....	153
1.4.3 Infrared spectroscopy .....	155
1.4.4 Mass spectroscopy .....	155
1.4.5 Identification of succinamopine .....	156
Section 2 Peptides .....	157
2.1 Structures and properties of peptides and proteins .....	157
2.2 Natural bioactive peptides .....	159
2.2.1 Purification and identification of peptides .....	160
2.2.2 Synthesis of peptides .....	162
References .....	165
<b>Chapter 9 Flavonoids .....</b>	169
Section 1 Overview .....	169
1.1 General structures and categories of flavonoids .....	169
1.2 Physical and chemical properties of flavonoids .....	170
1.3 The presence of flavonoids in plants .....	170
1.3.1 Flavones and flavanones .....	171
1.3.2 Flavonols and flavanonols .....	171
1.3.3 Chalcones and dihydrochalcones .....	171
1.3.4 Isoflavones and isoflavanones .....	171
1.3.5 Anthocyanidins .....	172
1.3.6 Flavanols .....	172
1.3.7 Aurones .....	172
1.3.8 Biflavonoids .....	172
1.3.9 Other flavonoids .....	172
Section 2 Extraction and Isolation of Flavonoids .....	172
2.1 Extraction .....	172
2.1.1 Hot water extraction .....	173
2.1.2 Methanol or ethanol extraction .....	173
2.1.3 Succession solvent extraction .....	173
2.1.4 Alkaline water or alkaline diluted alcohol extraction .....	173
2.2 Isolation .....	173
2.3 New extraction and isolation methods .....	173
2.3.1 Ultrasonic extraction .....	173
2.3.2 Ultrafiltration .....	174
2.3.3 Macroporous adsorption resin chromatography .....	174
2.3.4 Aqueous two-phase extraction .....	174
2.3.5 Supercritical fluid extraction .....	174
2.3.6 Enzymic extraction .....	174
2.3.7 High-performance liquid chromatography .....	174
2.3.8 Micellar thin layer chromatography and microemulsion thin layer chromatography .....	175
2.3.9 Molecular imprinting technology .....	175
2.3.10 Other isolation techniques .....	175

Section 3 Identification and Structure Study of Flavonoids .....	175
3.1 Identification .....	175
3.1.1 Physical and chemical identification .....	175
3.1.2 Thin-layer chromatography and spectral identification .....	176
3.2 Structure study .....	176
3.2.1 Spectral features of flavonoids .....	176
3.2.2 Flavonoid aglycone structure study .....	178
3.2.3 Structure study for flavonoid glycosides .....	181
Section 4 Pharmacological Study of Flavonoids .....	183
4.1 Cardiovascular system activity .....	183
4.2 Anti-microbial and anti-virus activity .....	183
4.3 Anti-tumor activity .....	183
4.4 Anti-oxyradical activity .....	183
4.5 Anti-inflammatory and analgesia activity .....	184
4.6 Hepatoprotective activity .....	184
Section 5 Flavonoid Assay Determination and Formulation .....	184
5.1 Flavonoid assay determination .....	184
5.1.1 Ultraviolet spectrophotometry (UV) .....	184
5.1.2 Thin-layer chromatography scanning (TLC scan) .....	184
5.1.3 HPLC .....	185
5.1.4 Capillary electrophoresis (CE) .....	186
5.2 Flavonoid formulations .....	186
Section 6 Conclusion .....	187
References .....	187
<b>Chapter 10 Anthraquinones .....</b>	189
Section 1 Introduction .....	189
1.1 Structure .....	189
1.1.1 Monosubstituted anthraquinones .....	189
1.1.2 Disubstituted anthraquinones .....	190
1.1.3 Trisubstituted anthraquinones .....	190
1.1.4 Tetrasubstituted anthraquinones .....	191
1.1.5 Pentasubstituted anthraquinones .....	192
1.1.6 Hexasubstituted and heptasubstituted anthraquinones .....	192
1.1.7 Anthracyclinones .....	192
1.2 Biological activity .....	193
Section 2 Physical and Chemical Properties .....	194
2.1 Physical properties .....	194
2.2 Coloration .....	194
2.3 Acidity .....	194
Section 3 Extraction and Isolation .....	195
3.1 Extraction .....	195
3.1.1 Extraction with organic solvent .....	195
3.1.2 Treatment with lead salt .....	195
3.1.3 Acid-base treatment .....	195
3.2 Isolation .....	195
Section 4 Spectral Characteristics .....	197
4.1 UV .....	197
4.2 IR .....	197
4.3 MS .....	198
4.4 NMR .....	198

Section 5 Examples .....	199
5.1 Anthraquinones from <i>Rhynchosetum vestitum</i> .....	199
5.2 Anthraquinones from <i>Rheum hotaoense</i> .....	202
5.3 Anthraquinones in <i>Morinda elliptica</i> .....	202
References .....	203
<b>Chapter 11 Coumarins .....</b>	205
Section 1 Introduction .....	205
Section 2 Structural Types .....	206
2.1 Simple coumarins .....	206
2.2 Furanocoumarins .....	207
2.2.1 6,7-Furanocoumarins .....	208
2.2.2 7,8-Furanocoumarins .....	208
2.3 Pyranocoumarins .....	208
2.3.1 6,7-Pyranocoumarins .....	208
2.3.2 7,8-Pyranocoumarins .....	208
2.4 Other coumarins .....	209
2.4.1 3- or 4-Phenylcoumarins and 3,4-Benzocoumarins .....	210
2.4.2 4-Hydroxycoumarin derivatives .....	210
2.4.3 Calanolides .....	211
Section 3 Physical and Chemical Properties .....	212
3.1 Fluorescence .....	212
3.2 Reactions with alkali .....	212
3.3 Reactions with acid .....	213
3.3.1 Alkene hydration .....	213
Section 4 Isolation .....	213
4.1 Extraction .....	213
4.2 Lactone separation .....	214
4.3 Fractional crystallization .....	214
4.4 Vacuum sublimation and steam distillation .....	214
4.5 Chromatographic methods .....	214
4.5.1 Column chromatography .....	215
4.5.2 Other chromatographic techniques .....	215
4.5.3 High-performance liquid chromatography .....	215
Section 5 Spectroscopic Identification .....	215
5.1 Ultraviolet spectroscopy .....	215
5.1.1 Alkylcoumarins .....	216
5.1.2 Oxygenated coumarins .....	216
5.1.3 Spectral shifts .....	216
5.1.4 Furanocoumarins .....	216
5.2 Infrared spectroscopy .....	217
5.2.1 C—H stretching frequencies .....	217
5.2.2 C=O stretching frequencies .....	217
5.2.3 C=C skeletal vibrations .....	217
5.2.4 Other absorptions .....	217
5.3 Nuclear magnetic resonance spectroscopy .....	218
5.3.1 <sup>1</sup> H-NMR .....	218
5.3.2 <sup>13</sup> C-NMR .....	219
5.3.3 2D-NMR .....	220
5.4 Mass spectrometry .....	220
5.4.1 Simple coumarins .....	220

5.4.2 Furanocoumarins and pyranocoumarins .....	221
Section 6 Research example .....	221
6.1 Plant material .....	221
6.2 Extraction and isolation .....	222
6.3 Structural Determination .....	222
References .....	223
<b>Chapter 12 Lignans .....</b>	225
Section 1 Introduction .....	225
1.1 Nomenclature .....	225
1.2 Biosynthesis of lignans .....	227
1.3 Isolation and identification .....	228
1.3.1 UV spectrum .....	229
1.3.2 IR spectrum .....	230
1.3.3 Nuclear magnetic resonance (NMR) spectroscopy .....	230
Section 2 Structural Types and Characteristics of Lignans .....	231
2.1 Dibenzylbutanes .....	231
2.2 Dibenzylbutyrolactones .....	231
2.3 Arylnaphthalenes .....	233
2.4 Tetrahydrofurans .....	234
2.5 2,6-Diaryl-3,7-dioxabicyclo[3.3.0]octanes .....	235
2.6 Dibenzocyclooctenes .....	237
2.7 Benzofurans .....	238
2.8 Bicyclic (3,2,1)-octanes .....	239
2.9 Benzodioxanes .....	239
2.10 Biphenyl derivatives .....	239
2.11 Oligomeric lignans .....	240
2.12 Miscellaneous .....	240
Section 3 Bioactivities of Lignans .....	242
3.1 Anti-tumor .....	242
3.2 Anti-virus .....	243
3.3 Cardioprotective effects .....	243
3.4 Hepatoprotective effects .....	243
3.5 Miscellaneous .....	243
References .....	244
<b>Chapter 13 Other Natural Bioactive Compounds .....</b>	247
Section 1 Sulfur Compounds .....	247
1.1 Allicin and Diallyltrisulfide .....	247
1.2 Bioactive components in scallions and onions .....	249
1.3 Rorifone .....	249
1.4 Other natural sulfur products .....	251
Section 2 Cyanide Compounds .....	251
2.1 Amygdalin .....	252
2.2 Sarmentosin and isosarmentosin .....	253
Section 3 Coixenolide .....	254
Section 4 Resveratrol .....	255
Section 5 Muscone .....	256
Section 6 Cardiac Glycosides .....	258
6.1 Introduction .....	258
6.2 Characteristics and detection of cardiac glycosides .....	260
6.2.1 Lieberman-Burchard reaction .....	260

6.2.2 Kedde reaction .....	260
6.2.3 Keller-Kiliani reaction .....	260
6.3 Extraction and separation of cardiac glycosides .....	260
6.4 The structures of cardiac glycosides .....	261
6.4.1 Sugar moiety of cardiac glycosides .....	261
6.4.2 Aglycones of cardiac glycosides .....	261
6.5 Spectroscopy of cardiac glycosides .....	262
6.6 Cardiac glycosides of <i>Digitalis lanata</i> .....	263
6.6.1 Extraction of cedilanid .....	264
6.6.2 Extraction of digoxin .....	265
Bibliography .....	266
References .....	266
<b>Chapter 14 Marine Natural Products .....</b>	269
Section 1 Introduction .....	269
Section 2 Marine plants .....	271
2.1 Mangrove plants .....	271
2.2 Seaweeds (Algae) .....	272
2.2.1 Rhodophyta (red algae) .....	273
2.2.2 Phaeophyta (brown algae) .....	274
2.2.3 Chlorophyta (green algae) .....	276
Section 3 Marine Invertebrates .....	277
3.1 Coelenterata (Coelenterates) .....	277
3.1.1 Gorgonacea (gorgonians) .....	278
3.1.2 Alcyonacea (soft corals) .....	280
3.1.3 Hexacorallia (hexacorals) .....	281
3.2 Porifera (Spongia) .....	282
3.3 Mollusca (Molluscs) .....	285
Section 4 Marine Microorganisms and Phytoplankton .....	286
Section 5 Miscellaneous .....	286
Section 6 Examples .....	287
Section 7 Epilogue (Outlook) .....	288
References .....	289
<b>Chapter 15 Structural Modification of Active Principles from TCM .....</b>	293
Section 1 Introduction .....	293
Section 2 Anti-malarial Drug Artemether .....	293
Section 3 Anti-hepatitis Drug Bifendate .....	296
Section 4 Anti-AD Drug Huperzine A .....	297
Section 5 Anti-arrhythmia Drug Changrolin .....	299
Section 6 Anti-neoplastic Drugs .....	301
6.1 Podophyllotoxin, etoposide and teniposide .....	301
6.2 Camptothecin .....	303
6.3 Vinca Alkaloids .....	305
6.4 Taxol .....	307
6.5 Cantharidin .....	309
6.6 Indirubin .....	310
Section 7 Computer-aided Drug Design and Structural Modification .....	311
References .....	313
<b>Chapter 16 Chemical Synthesis of Natural Products .....</b>	319
Section 1 Alkaloids .....	320
1.1 Morphine .....	320

1.2 Strychnine.....	321
1.3 Camptothecin.....	322
1.4 Reserpine.....	324
1.5 Maytansine.....	325
Section 2 Terpene.....	328
2.1 Monoterpene—menthol.....	328
2.2 Sesquiterpene—artemisinin.....	329
2.3 Diterpene—tanshinones, triptolide.....	330
Section 3 Flavonoids.....	333
3.1 Synthesis of chalcones and dihydroflavonoids.....	333
3.2 Synthesis of flavonoids and flavonols.....	334
3.2.1 Baker-Venkatereman's method.....	334
3.2.2 Algar-Flynn-Oyamada's method.....	334
3.2.3 Synthesis of isoflavone.....	335
Section 4 Synthesis of Anthraquinones.....	336
4.1 Friedel-Crafts acylation.....	336
4.2 Michael addition.....	337
4.3 Diels-Alder method.....	337
4.4 Ortho-metallization of <i>N,N</i> -diethylbenzamide.....	337
Section 5 Lignans.....	338
5.1 Podophyllotoxin.....	338
5.1.1 Cascade 1,4-1,2 addition approach.....	338
5.1.2 Diels-Alder reaction approach.....	339
5.2 Schizandrin.....	339
Section 6 Synthesis of Macrolide Antibiotics.....	342
6.1 Oleandomycin.....	343
6.2 Fluvirucin B <sub>1</sub> .....	344
6.3 Macrolatin A.....	345
Bibliography.....	347
References.....	347
Index.....	351

## Preface

This book is the revision of Science Press of China in 2006. It is one in the series “Basic Modern Chemistry” used to introduce modern chemistry and as a reference book for scientists and graduate students.

China is a country that is rich in natural resources because of its vast territory, diverse geography, and different climates. Traditional Chinese Medicine (TCM) is very important to the health of the Chinese and has been practiced in China for more than 5,000 years. Most TCM products come from plants. Some also come from animals, marine products, and minerals. Natural products chemistry is one of the most developed scientific fields in China and almost every Chinese university has a research or teaching unit for natural products chemistry or chemistry of natural medicines. The discovery of the remarkable antimalarial drug, artemisinin (Qinghaosu) and its derivatives from TCM herbs, *Artemisia annua*, encouraged many scientists around the world to study TCM herbs. Chinese scientists have published papers in many well known scientific journals including *Nature*, *Science*, *Journal of the American Chemical Society*, *Tetrahedron*, *Journal of Natural Products*, *Phytochemistry*, as well as many journals in China.

This book has collected the most important research results of natural products chemistry in China. It covers the basic principles of isolation, structure, characteristics, and the current research techniques of structure elucidation with wet chemistry and spectroscopic analyses (UV, IR, MS and NMR, especially 2d-NMR, HMBC and HMQC), bioactivity, biosynthesis, and chemical synthesis. These concepts are illustrated with examples from the authors' own scientific experiments. All the authors are scientists from Shanghai Institute of Materia Medica, Chinese Academy of Sciences; Shanghai Institute of Pharmaceutical Industry; College of Pharmacy, Fudan University; and Chinese Pharmaceutical University. They are professors and experts in their fields.

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Editors

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