

SUBJECT INDEX

A

- Abciscic acid, metabolism of analogues of in maize cultures 575
- Acanthaceae 713, 761, 1223, 1485
- Acetogenins,
cytotoxic, from *Annona* seeds 103
from Annonaceae, inhibiting mitochondrial complex I 253
from *Rollinia* fruits 1081
- Acetophenones, from *Melicope* roots 1175
- Achillea cretica*, bisabolenes from 737
- Acidic metabolites, from *Phycomyces* 1427
- Aconitum finetianum*, norditerpenoid alkaloids from 1253
- A. nasutum*, norditerpenoid alkaloid from 909
- Acyltransferases, in *Lupinus*, subcellular localization of 1557
- Adenostemma brasilianum*, kauranes from 479
- S*-Adenosyl-L-methionine:anol-*O*-methyltransferase, in *Pimpinella* cultures 397
- Adhatoda vasica*, pyrroloquinazoline from 1485
- Adina rubella*, 27-nor-triterpenoid glycosides from 1391
- Afzelia cuanensis*, fatty acid distribution in triacylglycerols from 621
- Agavaceae 1609
- Aglaia elaeagnoides*, triterpenoids, lignans and benzofuran from 1395
- Agrostophyllum callosum*, stilbenoids from 847
- A. khasianum*, stilbenoids from 1157
- Ajuga repens*, triacylated anthocyanins from 199
- Alangiaceae 723, 1435
- Alangium plataniifolium*, neolignan and iridoid glycosides from 1435
- A. premnifolium*, megastigmane and alcohol glycosides from 723
- Albatrellus confluens*, pyradine derivative from 547
- Albizia schimperana*, spermine alkaloids from 1211
- Alcohol glycosides, from *Alangium* 723
- Aleppicacines, from *Euphorbia* 473
- Algae 277, 673, 685, 967, 1025, 1071, 1141, 1341, 1347, 1527, 1595
- Aliphatic glycoside, from tomato cell cultures 1031
- Alkaloid
content, of *Erythroxylum*, during reproductive development 35
glycosides, steroidal, from *Lycopersicum* 169
N-oxides, isoquinoline, from *Thalictrum* 535
synthesis, in *Catharanthus*, role of signalling molecules in 417
- Alkaloids,
acridone,
from *Bosistoa* 235
from *Vepris* 881
aspidofractinine, from *Kopsia* 539
bisacridone, from *Citrus* 221
cyclopeptide, from *Zizyphus* 565
dioxoaporphine, from *Artabotrys* 1703
diterpenoid, from *Delphinium* 569, 875
ergot, from *Claviceps* 231
from *Echium* 225
from *Haplophyllum* 695
from *Hernandia* bark 1479
from *Nothapodytes* 907
from *Xylopia* 1703
from *Zanthoxylum* root bark 217
glyco-, steroidal, from *Solanum* 543
imidazole, from *Pilocarpus* 885
norditerpenoid,
from *Aconitum* 909, 1253
from *Delphinium* 249
pyranoquinolone, from *Vepris* 881
pyrrolizidine, from *Cynoglossum* 1217
pyrroloquinazoline, from *Adhatoda* 1485
quinolizidine, biosynthesis of in *Lupinus* 1557
spermine, from *Albizia* 1211
tropane, recycling of tropic acid moiety of, in *Duboisia* 1331
- Alkanediols, long-chain, from *Papaver* leaf cuticular waxes 1617
- Alkanoic acids, ω -phenyl, from *Trichilia* 795
- Alkanone, diaryl, from *Myristica* 1439
- Alkyl esters, from *Cereus* wax 1075
- Aloe littoralis*, oxanthrones from 1683
- Aloeaceae 1683
- Alpinia zerumbet*, labdane diterpenes from 149
- Alstroemeria*, anthocyanins from 97
- Alstroemeriaceae 97
- Alternaria solani*, antimicrobial altersolanol derivatives from 77
- Altersolanol derivatives, antimicrobial, from *Alternaria* cultures 77
- Amanita muscaria*, tyrosinase from 1511
- Ambrox[®], biotransformation of by *Cephalosporium* 1021
- Amino acids,
neuroexcitatory, distribution of in marine algae 1595
nonprotein, from *Cycas* and *Phaseolus* 443
- 2-Amino-4-carboxypyrimidine, from *Lathyrus* seeds 61
- 1-Amino-cyclopropane-1-carboxylic acid, non-involvement of in ethylene biosynthesis in lower plants 51
- 1 β -Amino-2 α ,3 β ,5 β -trihydroxycycloheptane, from *Physalis* 719
- Anabaena cylindrica*, effect of growth conditions on endo- and exopolymer biosynthesis in 655
- Andrographis wightiana*, ent-labdane diterpenoids from 761
- Aneura pinguis*, pinguic acid sesquiterpenes from 465
- Annona*, cytotoxic acetogenins from 103
- A. crassiflora*, (bis)-tetrahydrofuran polyketide from 705
- Annonaceae 103, 253, 705, 1081, 1703
- acetogenins from, inhibiting mitochondrial complex I 253
- Anthocyanins,
acylated,
from *Lactuca* leaves 661
from regenerated *Hyacinthus* flowers 671
from *Alstroemeria* 97
from petals of genetically transformed lisianthus 1035
malonylated,
from blue *Meconopsis* flowers 863
from *Ranunculus* 1055
triacylated, from *Ajuga* 199
- Anthranilic acid glucoside, from *Bromelia* fruits 871
- Anthraquinones,
chlorinated, from *Nephroma*, biosynthesis of 1325
9,10-, elucidation of substitution patterns of by ¹H NMR 177
from *Galium* 1149

- Anthyllis hermanniae*, isoflavonoids and chalcones from 1455
 Apocynaceae 45, 417, 423, 539
 Aquifoliaceae 1119
Arabidopsis thaliana, epicuticular waxes in wild type and mutants of 29
 α -L-Arabinofuranosidase, from *Pyrus* fruit cell walls 295
 Araceae 447
Aralia chinensis, triterpene saponins from 1123
 Araliaceae 667, 1123
 Araticulin, from *Annona* 705
Arisaema amurense, diacylglycerylgalactosides from 447
Arnica mollis, 1, 5-*cis*-guaianolide glucoside from 1093
Artabotrys zeylanicus, dioxoaporphine from 1703
Artemisia lerchiana, sesquiterpene lactones from 1231
A. pontica, eudesmanolides from 469
 Aryl glycosides, from *Margyricarpus* 163
 Asclepiadaceae 523, 1135
Aspergillus flavus, effect of gliotoxin from, on plant growth 645
A. niger, inhibition of polyphenol oxidase by copper-metallothionein from 935
Astrotrichilia asterotricha, limonoid from 1239
Avena sativa,
 15(*R*)-hydroxylinoleic acid from 729
 photodegradation of chlorophyll phytyl chain in senescent leaves of 347
Azadirachta indica, 11-*epi*-azadirachtin from 561
Azospirillum lipoferum, activity of laccase from, on phenolics 357
- B**
Baccharis, oxygenated cadinanes from 1097
Bacopa monniera, dammarane-type triterpenoid saponins from 815
 Bacteria 357, 365, 655
 Bakuchiol, from *Psoralea* 1299
Bazzania trilobata, sesquiterpenoids from 1361
 Benzodipyrans, isomeric, from *Calophyllum* 1181
 Benzofuran,
 from *Aglaia* bark 1395
 from *Ophryosporus* 1443
 Benzoxepine derivative, from *Delphinium* 1257
 Benzyl alcohol glycosides, from tomato cell cultures 1031
 Berberidaceae 213
 Betacyanins, from *Phytolacca* 1039
 Betalain biosynthesis, in *Amanita*, involvement of tyrosinase in 1511
 Beticolin-1, from *Cercospora*, O_2^- scavenging activity of 979
 Bianthraquinones, from *Senna* 1423
 Biflavonoids,
 from *Daphne* 1447
 from *Dysoxylum* leaves 1199
 Bignoniaceae 1315
 Biological activity, of (+)- and (-)-C'-O-methyl abscisic acids 575
 Biologically active compounds,
 allelopathic hydroxycinnamates and norisoprenoids, from *Bunias* 1005
 antibacterial
 altersolanol pigments, from *Alternaria* culture liquid 77
 phloroglucinols, from *Hypericum* 185
 antifungal
 chromenes, from *Gentiana* 1305
 flavanones, from *Gentiana* 1305
 phenolics, from *Phellinus* 1321
 antisecretory proanthocyanidin polymers, from *Guazuma* 109
 antitumour polyketide, from *Annona* 705
 antitumour-promoter steroidal saponins, from *Hosta* 1065
 antiviral lignans and their glycosides, from *Justicia* 713
 auxin-inhibiting DMBAs, from light-grown maize shoots 273
 cyclic AMP phosphodiesterase inhibitory saponins, from *Nolina* 1609
 cytotoxic
 acetogenins, from *Annona* 103, 253
 limonoids, from *Melia* 709
 meroterpenoids, from *Psoralea* 1299
 fungicidal 4-quinolinones, from *Pseudomonas* 365
 insect-attractant monoterpenoid, from banana 369
 insect antifeedant meroterpenoids, from *Psoralea* 1299
 mitochondrial complex I inhibitory acetogenins, from Annonaceae 253
 molluscicidal 5-deoxyflavones, from *Parkia* 1011
 nematicidal hydrocarbons, from *Mucuna* 997
 phytotoxic
 diterpene, from *Sphaeropsis* 1541
 hydroxycinnamates and norisoprenoids, from *Bunias* 1005
 sesquiterpenoids, from *Botrytis* 383
 plant growth-promoting 4-quinolinones, from *Pseudomonas* 365
 radical scavenging fungal toxin, from *Cercospora* 979
 Biosynthesis,
 of acylated anthocyanins, in *Lactuca* leaves 661
 of alkaloids,
 in *Catharanthus*, enhancement of by signal molecules 417
 quinolizidine, in *Lupinus* 1557
 tropane, in *Duboisia* 1331
 of anthraquinones, chlorinated, in *Nephroma* 1325
 of betalains, tyrosinase from *Amanita* involved in 1511
 of cyanohydrin glucosides, in *Passiflora* and *Turnera* 649
 of eicosapentaenoic acid, in microalgae, different pathways of 1025
 of endo- and exopolymers, in *Anabaena*, effect of growth conditions on 655
 of ethylene, in lower plants, non-ACC pathway of 51
 of lathyrine pyrimidine moiety, in *Lathyrus* 61
 of phenylpropanoids, in *Pimpinella* organ cultures 397
 of sesquiterpenoid phytoalexins, in potato 1563
 of triterpenoids, in *Taraxacum* 405
 Biotransformation
 of Ambrox® by *Cephalosporium* 1021
 of cedrol, by *Mucor* 1583
 of cyanohydrin glucosides, from nitriles, in *Passiflora* and *Turnera* 649
 of digitoxigenin, by cultured ginseng cells 667
 of progesterone, by *Chlorella* 685
 of sclareolide, by *Cephalosporium* 1021
 of testosterone, by *Cephalosporium* 411
Bjerandera, chlorometabolites from 1699
 Blackspot-related pigments, from potato tubers 941
Blumea obliqua, acetylenic thiophenes from 733
 Boraginaceae 225, 1217
Bosistoa transversa, acridone alkaloids from 235
 Botcinolide derivatives, from *Botrytis* 1621
Botrytis cinerea,
 effect of cucurbitacins on mRNA coding for laccase in 321
 phytotoxic metabolites from 1621
 phytotoxic sesquiterpenoids from 383
Brassica campestris, changes in lipid composition in 335
B. napus, titrimetric test for lipase activity in 973
 Brassinosteroid, from peas 509
Bromelia plumieri, 1-O- β -D-glucopyranosyl anthranilate from 871
 Bromeliaceae 871
 Brominating activity, in vivo, in *Eucheuma* 1527
 Bromoperoxidase, in *Corallina* regulation of by vanadate 277
Buddleja albiflora, methylene quinone diterpene from 485
 Buddlejaceae 485
 Bufadienolides, from *Urginea* 513
Bunias orientalis, phytotoxic constituents from 1005

- Buntanbismine, from *Citrus* 221
Bupleurum smithii, triterpenoid saponins from 1673
- C**
 Cactaceae 1075
 Cadinanes, oxygenated, from *Baccharis* 1097
 Caffeine, in *Coffea*, compartmentation of with chlorogenic acids 985
 Calcium ions, promoting defence response in lemon seedlings 595
Calophyllum inophyllum, isomeric benzodipyrans from 1181
C. thwaitesii, xanthenes from 249
 Calystegin-related cycloheptane, from *Physalis* 719
 Campanulaceae 69, 1115
Canarina canariensis, β -amyrin acetate epoxide from 1115
Canthium schimperianum, cyanogenic glycoside from 633
 Caprifoliaceae 741
Capicum annum,
 cerebrosides from 627
 post-harvest biochemistry of fruit softening in 961
Caralluma retrospiciens, pregnane glycosides from 1135
 Cardenolide glycosides, from *Gomphocarpus* 523
 Cardenolides, from *oleander*, presence of in *Daphnis* moths 45
 Cardiac glycosides, from *Urginea* 513
Cardiospermum grandiflorum, fatty acid composition of seed oils from 1357
Caryodaphnopsis tonkinensis, neolignans and sesquiterpene from 1167
 Carophyllaceae 439
 (+)-Catechin coupling, using grape polyphenoloxidase 1279
Catharanthus roseus,
 role of signalling molecules in alkaloid synthesis in 417
 synthesis of optically active α -phenylpyridylmethanols by 423
 Cedrol, biotransformation of by *Mucor* 1583
 Celastraceae 789, 1377
 Celastruloids, from *Salacia* root bark 1377
Cephalosporium aphidicola,
 biotransformation of Ambrox® and sclareolide by 1021
 hydroxylation of testosterone by 411
Cephaloziella recurvifolia, (-)-ledol from 677
Ceratocystis fimbriata, relation of coffee tree canker to metabolites from 1547
 Cercidiphyllaceae 1531
Cercidiphyllum japonicum, chlorophyll *a* catabolite from 1531
Cercospora beticola, O₂⁻ scavenging activity of beticolin-1 from 979
 Cerebrosides, from bell pepper and tomato fruits 627
Cereus peruvianus, wax esters from 1075
 Chalcones, from *Anthyllis* 1455
Chamaecyparis obtusa, sesquiterpene alcohols from 159
 Chemotaxonomic studies,
 of amino acids, neuroexcitatory, in marine algae 1595
 of anthocyanins, malonylated, in *Ranunculus* 1055
 of cell wall sugars, in *Scenedesmus* 673
 of diterpenoids,
 neo-clerodane, in *Scutellaria* 1059
 in *Jungermannia* 93
 of epicuticular waxes, in *Encephalartos* leaves 1335
 of fatty acids,
 in marine macrophytes 1347
 in Pinaceae seeds 1051
 in Sapindaceae seed oils 1357
 of flavonoid variation, in *Glycyrrhiza glabra* 701
 of flavonoids,
 in *Gaillardia* 1367
 in *Sideritis* 101
 of iridoids, in Sardinian *Linaria* species 89
 of isoscutellarein glycoside, in *Sideritis* 101
 of leaf wax ketones, in *Coincya* 1047
 of (-)-ledol, in *Cephaloziella* 677
 of lignans, in *Haplophyllum* 689, 695
 of lipids, in marine algae 1341, 1347
 of progesterone biotransformations, in *Chlorella* 685
 of sesquiterpene lactones,
 in *Gaillardia* 1367
 in *Stevia* 681
 of sesquiterpenoids,
 in *Bazzania* and *Porella* 1361
 in *Jungermannia* 93
 of sterol content, in organs and varieties of feverfew 1603
 of triacylglycerols, in Pinaceae seeds 1051
 Chenopodiaceae 927
Chlorella, biotransformations of progesterone by 685
 4-Chloro-6,7-dimethoxy-2-benzoxazolinone, auxin-inhibiting, from maize shoots 273
 Chlorogenic acids, in *Coffea*, complex formation of with caffeine 985
 Chlorometabolites, from *Bjerkandera* 1699
 Chlorophyll *a* catabolite, from *Cercidiphyllum* senescent leaves 1531
 Chlorophyll phytyl chain, photodegradation of, in senescent leaves 347
 Chlorophyta 39, 673, 685, 1347, 1595
 Chloroplast adenylate kinase, from tobacco 589
 Chromanones, from *Ophryosporus* 1443
 Chromenes, antifungal, from *Gentiana* 1305
Chroomonas salina, betaine lipids from 967
Chrysanthemum parthenium, sterol content in different organs of 1603
Cimicifuga foetida, cycloartane triterpenoid from 489
 Cinchomeronic acid, in radish, proton pump activation and growth promotion by 1
 1, 8-Cineole, as attractant for banana weevil 369
 Cinnamic acids, from *Taraxacum* 121
Citrus grandis, bisacridone alkaloid from 221
C. limon, calcium ions promoting defence response in 595
Cladophora vagabunda, effect of salinity on lipid composition of 39
Claviceps purpurea, ergot alkaloid from 231
Clematis chinensis, triterpenoid saponins from 821
Coffea arabica, compartmentation of caffeine and chlorogenic acids in 985
Coincya, leafwax ketones from 1047
Colebrookea oppositifolia, flavonoid glycosides from 867
 Combretaceae 189
 Compositae 121, 309, 405, 469, 479, 563, 661, 681, 733, 737, 747, 751, 757, 783, 921, 1093, 1097, 1191, 1231, 1367, 1369, 1443, 1603, 1605, 1637
Conocephalum conicum, trans-methyl cinnamate from 241
Copaifera, diterpenoids from 1653
Corallina pilulifera, regulation of bromoperoxidase in 277
Coriandrum sativum,
 isocoumarins from 843
 petroselinic acid from cultures of 1581
Coriaria intermedia, 20-epibryonolic acid, phytosterols and ellagic acid from 559
 Coriariaceae 559
Cosmopolites sordidus, 1,8-cineole from *Musa* as attractant to 369
Cotoneaster simonsii, flavonols and isoflavones from 903
cis-p-Coumaric 4'-O- β -D-glucoside, from *Sphagnum* 81
 Coumarins,
 from *Haplophyllum* 695
 from *Taraxacum* 121
 highly oxygenated, from *Pterocaulon* 563
Cratogeomys formosanus, xanthenes from 1195
 Cruciferae 1, 29, 287, 335, 973, 1005, 1047
Cryptomeria japonica, pectic polysaccharides from 611
 Cucurbitaceae 1263
 Cucurbitacins, effect of on mRNA coding for laccase in *Botrytis* 321

- Cupressaceae 159, 779, 1015, 1541
Cupressus sempervirens, phytotoxic diterpenoid from fungal pathogen of 1541
Curcuma longa, inhibition of protein kinase by curcumin from 599
 Cyanogenic glycoside, from *Canthium* 633
 Cyanoglucosyltransferases, from cassava leaves 1517
 Cyanohydrin glucosides, biosynthesis of in *Passiflora* and *Turnera* 649
 Cycadaceae 443, 1335
Cycas circinalis, nonprotein amino acids from 443
Cynoglossum creticum, pyrrolizidine alkaloids from 1217
Cyrtocymura cincta, sesquiterpene lactones from 1637
 Cytochalasin, from *Daldinia* 173
 Cytochrome P450-dependent hydroxylation, of ecdysone in spinach 927
- D**
Daldinia, 10-phenyl-[11]-cytochalasan from 173
Daphne odora, biflavonoids from 1447
Daphnis nerii, presence of oleander cardenolides and ursolic acid in 45
Daucus carota, toxicity of 6-methoxy- and 6-hydroxymellein to cells of 641
 Dehydronicatechin formation, catalysed by grape polyphenoloxidase 1279
Delphinium barbeyi, diterpenoid alkaloid from 875
D. caeruleum, diterpenoid alkaloids from 569
D. formosum,
 benzoxepine derivative from 1257
 norditerpenoid alkaloids from 1249
 Desferal, inhibition of peroxidase and laccase by 283
 Diacylglycerylgalactosides, from *Arisaema* 447
 Diamine oxidase, from wheat shoots 291
 Digitoxigenin, biotransformation of by ginseng cultured cells 667
 Dihydropyranocoumarin, from *Peucedanum* 1689
 2,5-Dimethoxytetrahydrofuran, from *Hemerocallis* 135
 Dipsacaceae 239
Dipsacus asperoides, iridoid glucoside from 239
 Diterpenoid
 glycosides
 neo-clerodane, from *Salvia* 1105
 furanoid, from *Tinospora* 153
 kaurane, from *Inula* 783
 polyesters, pentacyclic, from *Euphorbia* 473
 Diterpenoids,
 abietane,
 from *Buddleja* 485
 from *Salvia* 145
 neo-clerodane,
 C-10 oxygenated, from *Teucrium* 775
 from *Scutellaria* 555, 1059
 dehydroabietane, from *Juniperus* 779
 from copaiba oil 1653
 from *Jungermannia* 93, 1641
 from *Taiwania* 1657
 from *Zythiostroma* 1647
 isomeric, from *Vellozia* 767
 kaurane, from *Adenostemma* 479
 labdane, from *Alpinia* 149
 ent-labdane, from *Andrographis* 761
 pimarane, phytotoxic, from *Sphaeropsis* 1541
 production of by *Euphorbia* cell cultures 1587
 tetranorfriedolabdan, from *Vellozia* 771
Drosera, anthrohydroquinone glucosides from 1145
 Droseraceae 1145
Duboisia leichhardtii, recycling of tropic acid moiety of atropine in 1331
Dumortiera hirsuta, carboxylated α -pyrones and flavanoids from 1693
Dysoxylum lenticellare, biflavonoid from 1199
D. muelleri triterpenoids from 1667
- E**
 Ecdysone 20-monooxygenase, from spinach 927
Echium humile, alkaloids from 225
 Eicosapentaenoic acid, biosynthesis of in microalgae 1025
Eirmocephala megaphylla, sesquiterpene lactones from 1637
Ekebergia capensis, acyclic triterpenoids from 803
 Ellagic acid, from *Coriaria* 559
Encephalartos, epicuticular waxes and glaucousness of 1335
 Endopolymer biosynthesis, in *Anabaena*, effect of growth conditions on 655
 Enzymes,
 S-adenosyl-L-methionine:anol-O-methyltransferase, from *Pimpinella* 397
 α -L-arabinofuranosidase, from pear cell walls 295
 bromoperoxidase, from *Corallina*, regulation of by vanadate 277
 chloroplast adenylate kinase, from tobacco 589
 diamine oxidase, from *Triticum* 291
 ecdysone 20-monooxygenase, from spinach 927
 glucosyltransferase, cyano, from cassava leaves 1517
 laccase, inhibition of, by desferal 283
 lactate dehydrogenase, in plants, distribution and functions of 581
 lipase activity, titrimetric test for, using stabilized triolein emulsions 973
 NADP-malic enzyme, cytosolic, evidence for in tomato 11
 nicotine N-demethylase, from cell-free tobacco cultures 325
 peroxidases,
 from radish, carbohydrate moieties of 287
 inhibition of, by desferal 283
 phenylalanine ammonia lyase, from *Rhodotorula* 17
 protease, acidic, amino acid-specific, from germinating soybeans 313
 protein kinase, phosphatidylserine-sensitive calcium-dependent, from rice 21
 squalene synthase, from dandelion cultures 405
 tyrosinase, from *Amanita*, involved in betalain biosynthesis 1511
 UDP-glucose pyrophosphorylase, from malt, kinetic characterization of 955
Ephedra, quinoline-2-carboxylic acids from 1477
 Ephedraceae 1477
 20-Epibryonolic acid, from *Coriaria* 559
Epimedium koreanum, flavonol rhamnosylrhamnosides from 213
 Epomusenins, from *Rollinia* fruit 1081
 Epoxychalcanol, from *Pueraria* 243
Erythrina orientalis, pterocarpan from 1473
 Erythroxylaceae 35
Erythroxylum coca, alkaloid content during reproductive development of 35
 Ethylene biosynthesis, in lower plants, evidence for non-ACC pathway of 51
 (Z)-5-Ethylidene-2(5H)-furanone, glycosidic precursor of in *Halocarpus* 453
Eucheuma denticulatum, in vivo brominating activity of 1527
Euphorbia aleppica, pentacyclic diterpene polyesters from 473
E. calypttrata, production of diterpenoids by cultures of 1587
 Euphorbiaceae 129, 353, 473, 1517, 1587
Eustoma grandiflorum, anthocyanins from genetically transformed lines of 1035
Eutypa lata, sterol composition of 1599
 Exopolymer biosynthesis, in *Anabaena*, effect of growth conditions on 655
- F**
Fagonia mollis, saponins from 1405
 Fatty acid
 composition, of Sapindaceae seed oils 1357
 conjugates of triterpenes, from *Pentaclethra* 501

- distribution, in triacylglycerols from *Azela* 621
- Fatty acids,
from marine macrophytes 1347
from *Pinus* seeds 1051
keto, from *Smilax* seed oil 889
oxygenated, from oat seeds 729
- Fitzroya cupressoides*, sesquiterpene alcohols from 1015
- Flavanones, antifungal, from *Gentiana* 1305
- Flavone
diglycoside, from *Sideritis* 101
glycosides, from *Lysionotus* 1203
- Flavones,
5-deoxy-, molluscicidal, from *Parkia* 1011
from *Gentiana* 139
- Flavonoid glycosides, from *Colebrookea* 867
- Flavonoid variation, in *Glycyrrhiza* leaves 701
- Flavonoids,
from *Dumortiera* 1693
from *Haematoxylon* 1243
from *Isodon* 1247
from *Lonchocarpus* 1459
from *Taraxacum* 121
highly-oxygenated, from *Muraya* 1207
- Flavonol rhamnosylrhamnosides, from *Epimedium*, NMR characterization of 213
- Flavonols,
from blue *Meconopsis* flowers 863
from *Cotoneaster* 903
in *Petunia*, effect of induced polyploidy on 361
- Fungal elicitors, promotion of *Citrus* defence response against 595
- Fungi 17, 77, 173, 231, 321, 383, 389, 411, 547, 637, 645, 935, 979, 1021, 1321, 1427, 1511, 1537, 1541, 1547, 1583, 1599, 1621, 1647, 1699
- G**
- Gaillardia*, chemotaxonomy of Argentinian species of 1367
- Galium macedonicum*, non-glycosidic iridoid from 1227
- G. sinaicum* anthraquinones from 1149
- Gallotannins, from *Haematoxylon* 1243
- Gastrodia elata*, parishins from rhizomes of 549
- Gentiana depressa*, iridoids and flavones from 139
- G. macrophylla*, acyl secoiridoids and antifungal constituents from 1305
- Gentianaceae 139, 1035, 1305
- Gesneriaceae 495, 1203
- Gibberellin A₃₄ glucosyl conjugates, synthesis of 7
- Gibberellins,
from *Helianthus* seeds, synthesis and structure confirmation of 921
from immature *Prunus* seed 913
from *Marah* endosperm and embryos 1263
- Glutotoxin, from *Aspergillus*, effect of on amino acid biosynthesis 645
- Glucosyltransferases, cyano, from cassava leaves 1517
- Glutamate dehydrogenase, ammonium ion salvage by, during maize defence response 1491
- N-Glycan, mannosyl-type, unconjugated, from tomato 607
- Glycine max*, acidic amino acid-specific protease from 313
- Glycosmis arborea*, tetracyclic triterpenoids from 1109
- Glycyrrhiza glabra*,
flavonoid variation in 701
triterpene glucuronosyltransferase activity in 665
- Gomphocarpus sinaicus*, cardenolide glycosides from 523
- Gramineae 21, 273, 291, 347, 357, 575, 729, 955, 1491
- Guazuma ulmifolia*, proanthocyanidin polymers and oligomers from 109
- Guiera senegalensis*, 1,3-di-O-galloylquinic acid from 189
- Guttiferae 185, 245, 249, 435, 1181, 1195
- H**
- Haematoxylon campechianum*, gallotannins and flavonoids from 1243
- Halocarbon production, in *Eucheuma* 1527
- Halocarpus*, glycosidic lactone from juvenile leaves of 453
- Hamamelidaceae 191
- Hamamelis virginiana*, galloylhamameloses and proanthocyanidins from 191
- Haplophyllum cappadocicum*, lignans from 689
- H. vulcanicum*, lignans, alkaloids and coumarins from 695
- Helianthus annuus*, gibberellins from 921
- Hemerocallis fulva*, 2,5-dimethyltetrahydrofuran from 135
- Hepaticae 93, 241, 427, 461, 465, 677, 1361, 1641, 1693
- Heptaepptide, cyclic, from *Vaccaria* 439
- Hernandia nymphaeifolia*, alkaloids from 1479
- Hernandiaceae 1479
- Hevea brasiliensis*, molecular weight control mechanisms for rubbers in 353
- Hoplocampa testudinea*, volatiles emitted by apple infested by larvae of 373
- Hordeum vulgare*, kinetics of UDP-glucose pyrophosphorylase from 955
- Hosta longipes*, antitumour-promoter steroidal saponins from 1065
- Hyacinthus orientalis*, acylated anthocyanins in regenerated flowers of 671
- Hydrocarbons,
monoterpene, in *Picea* xylem and needles 1289
nematicidal, from *Mucuna* 997
- Hydrolases, cell wall, activity of during *Capsicum* ripening 961
- α -Hydroxyacetovanillone, formation of in *Solanum* cell cultures 1573
- Hydroxycinnamic acid conjugates, phytotoxic, from *Bunias* 1005
- Hydroxycinnamoylamides, formation of in *Solanum* cell cultures 1573
- 4-Hydroxyphenylpropan-7,8-diols, from *Narvalina* 1191
- Hypericum brasiliense*, antibacterial phloroglucinols from 185
- H. patulum*, prenylated xanthenes from 435
- I**
- Icacinaceae 907
- Ilex paraguariensis*, highly polar saponin from 1119
- Illiciaceae 1375
- Illicium dunnianum*, sesquiterpene lactones from 1375
- Indole-3-acetic acid, aerobic oxidation of in tobacco 1271
- Inula britannica*, kaurane glycosides from 783
- Iridoid glycosides,
acylated, from *Alangium* bark 1435
from *Dipsacus* 239
from *Nepeta* 1085
from *Plantago* 1633
from *Thunbergia* 1223
- Iridoids,
from *Gentiana* 139
from *Linaria* 89
non-glycosidic, from *Galium* 1227
- Iron withholding, by polyphenols, involved in plant resistance to pathogens 1551
- Isocoumarins, from *Coriandrum* 843
- Isodon loxothyrsus*, triterpenoids from 1665
- I. oresbius*, flavonoids from 1247
- Isoflavones, from *Cotoneaster* 903
- Isoflavonoids, from *Anthyllis*, 1455
- Isotontoxin, conversion of tentoxin to, and its chlorosis and wilting effects 1537
- J**
- Jasminum odoratissimum*, secoiridoid glucoside from 553
- J. polyanthum*, secoiridoid glycoside from 1629
- Jatropha podagrica*, cyclic peptides from 129
- Jungermannia truncata*, sesqui- and diterpenoids from 1641
- J. vulcanicola*, sesqui- and diterpenoids from 93
- Juniperus formosana*, dehydroabietane diterpenes from 779

- Justicia procumbens*, antiviral lignans and lignan glycosides from 713
- K**
Ketones, from *Coincya leaf wax* 1047
Khaya senegalensis, rearranged limonoids from 831
Kopsia teoi, aspidofractinine alkaloids from 539
- L**
Labiales 101, 145, 199, 431, 555, 775, 867, 899, 1059, 1085, 1089, 1105, 1247, 1665
Laccase,
from *Azospirillum*, activity of on phenolics 357
in *Botrytis*, effect of cucurbitacins on mRNA coding for 321
inhibition of by desferal 283
Lactate dehydrogenase, distribution in plants and function of 581
Lactone glycoside, from *Halocarpus* juvenile leaves 453
Lactuca sativa, cyanidin 3-malonylglucoside and its acyltransferase from 661
Lasallia asiae-orientalis, tridepside from 839
Lathyrus tingitanus, 2-amino-4-carboxypyrimidine from 61
Lauraceae 1167
(-)-Ledol, from *Cephaloziella* 677
Leguminosae 61, 63, 243, 313, 341, 443, 501, 509, 621, 665, 701, 857, 997, 1011, 1211, 1243, 1267, 1299, 1423, 1455, 1459, 1473, 1503, 1557, 1653
Lichens 839, 1325
Lignan glycosides, antiviral, from *Justicia* 713
Lignans,
antiviral, from *Justicia* 713
from *Aglaia bark* 1395
from *Haplophyllum* 689, 695
from *Magnolia* 531
from *Myristica* 1439
Liliaceae 135, 513, 671, 889, 895, 1065
Limonoids,
azadirachtin-type, cytotoxic, from *Melia* 709
from *Astrotrichilia* 1239
from *Turraea* 1235
rearranged, from *Khaya* 831
Linaria, iridoids from 89
Lipase activity, in *Brassica* titrimetric test for 973
Lipid composition,
changes in during *Brassica* floral development 335
of *Cladophora*, effect of salinity on 39
of symbiosomes from *pea root nodules* 341
Lipids,
betaine
from *Chroomonas*, GC-MS identification of 967
in marine algae 1341
polar, from marine macrophytes 1347
Lithospermic acids, from *Ocimum hairy root cultures* 431
Lonchocarpus subglaucescens, flavonoids from 1459
Lupinus, subcellular localization of acyltransferases in 1557
Lycopersicon esculentum,
aliphatic and aromatic glycosides from 1031
cerebrosides from 627
cytosolic NADP-malic enzyme in 11
polymer mobility in cell walls of transgenic fruits of 301
steroidal alkaloid glycosides from 169
unconjugated high mannosyl-type *N*-glycans from 607
vitamin, D₃ and its metabolites in 617
Lysionotus pauciflorus, nevadensin glycosides from 1203
- M**
Magnolia, naphthalene from flowers of 999
M. fargesii, lignans from 531
Magnoliaceae 531, 999
Malonyl-CoA:anthocyanidin malonyltransferase, from *Lactuca* leaves 661
Malus domestica, volatiles from sawfly larvae-infested fruitlets of 373
Mammea acuminata, furanoxanthones from 245
Manihot esculenta, cyanoglucosyltransferases from 1517
Marah macrocarpus, gibberellins from 1263
Margyricarpus setosus, aryl and triterpene glycosides from 163
Matricaria chamomilla, oil body associated protein from 309
Mauritine, from *Zizyphus* 565
Meconopsis, malonylated anthocyanin and flavonols in blue flowers of 863
Megastigmane glycosides, from *Alangium* 723
Melaleuca leucadendron, hydrolysable tannin from 1171
Melanothamnus somalensis, C₂₆ sterol from 1141
Melia azedarach, cytotoxic limonoids from 709
Meliaceae 561, 709, 795, 803, 831, 1199, 1235, 1239, 1395, 1399, 1667
Melicope erromangensis, acetophenones from 1175
Meliosma lanceolata, triterpenoid glycosides from 809
Menispermaceae 153
Meroterpenoids, from *Psoralea* 1299
Metallothionein, from *Aspergillus*, inhibition of polyphenol oxidase by 935
6-Methoxymellein toxicity of to carrot cells 641
Methyl 5',5',5'-trifluorojasmonate, potato tuber-inducing activity of 1259
Meum athamanticum, sesquiterpene hydrocarbons in essential oil of 461
Mevalonate pathway enzymes, in *potato tubers*, induction of 1563
Monodus subterraneus, eicosapentaenoic acid biosynthesis in 1025
Monoglycerides, from *Pentaclethra* root bark 501
Monoterpene glucoside, from *Portulaca* 1625
Monoterpenoids, from *Picea*, amounts and enantiomeric compositions of 1289
Mucor plumbeus, biotransformation of cedrol by 1583
Mucuna aterrima, nematocidal hydrocarbons from 997
Murraya paniculata, highly-oxygenated flavonoids from 1207
Musa,
1,8-cineole from, as attractant for banana weevil 369
putrescine accumulation in wounded fruit of 331
M. paradisiaca, trace element concentrations in peel and trunks of 1523
Musaceae 331, 369, 1523
Musci 81
Mussaenda pubescens, saponins from 827, 1131
Myristica daeryloides, lignans and aryl alkanone from 1439
Myristicaceae 1439
Myrtaceae 1171
- N**
NADP-malic enzyme, cytosolic, in tomato 11
Naphthalene, from *Magnolia* flowers 999
Naphthohydroquinone glucosides, from *Drosera* cultures 1145
Naphthoquinones, antifungal and antibacterial, from *Newbouldia* roots 135
Narvalina domingensis, 4-hydroxyphenylpropan-7,8-diols from 1191
Neolignan glycoside, from *Alangium* bark 1435
Neolignans, from *Caryodaphnopsis* 1167
Nepeta nuda, iridoid glucosides from 1085
Nephroma laevigatum, biosynthesis of chlorinated anthraquinones from 1325
Nerium oleander, presence of cardenolides and ursolic acid from, in *Daphnis* moths 45
Nevadensin glycosides, from *Lysionotus* 1203
Newbouldia laevis, antifungal and antibacterial naphthoquinones from 1315
Nicotiana tabacum,
chloroplast adenylate kinase from 589

- nicotine *N*-demethylase from 325
 overexpression of anionic peroxidases in transgenic plants of 1271
 Nicotine *N*-demethylase, in tobacco cell-free preparations 325
Nolina recurvata, steroidal saponins from 1609
 Norisoprenoids, phytotoxic, from *Bunias* 1005
Nothapodytes foetida, alkaloids from 907
- O**
Ocimum basilicum, rosmarinic acid from hairy root cultures of 431
 Oleaceae 553, 1629
Ophryosporus lorentzii, chromanones and benzofurans from 1443
 Orchidaceae 549, 847, 853, 1157
Oryza sativa, proton kinase from 21
 Oxanthrones, from *Aloe* 1683
- P**
Panax ginseng, biotransformation of digitoxigenin by 667
Papaver, hamologous long-chain alkanediols from 1617
 Papaveraceae 863, 1617
Paradrymonia macrophylla, triterpenes and triterpene glycosides from 495
 Parishins, from *Gastrodia* rhizomes 549
Parkia clappertoniana, molluscicidal 5-deoxyflavones from 1011
Passiflora morifolia, biosynthesis of cyanohydrin glucosides from nitriles in 649
 Passifloraceae 649
Paullina meliaefolia, fatty acid composition of seed oils from 1357
Pentaclethra eetveldeana, triterpenes and monoglycerides from 501
 Peptides, cyclic, from *Jatropha* latex 129
 Peroxidases,
 anionic, overexpression of in tobacco transgenic plants 127
 from radish, carbohydrate moieties of 287
 inhibition of by desferal 283
Petasites japonicus, *eco-eremophilanes* from 751
 Petroselinic acid, from *Coriandrum* cultures, production of 1581
Petroselinum sativum, photodegradation of chlorophyll phytyl chain in 347
Petunia hybrida, effect of induced polyploidy on flavonols in 361
Peucedanum praeruptorum, dihydropyranocoumarin from 1689
 Phaeophyta 1347
 Phaeophytins, from *Plagiochila* cell cultures 427
 Phaseolus vulgaris,
 nonprotein amino acids from 443
 polygalacturonase inhibitors from 1267
Phellinus pini, antifungal metabolites from 1321
 Phenolic glycosides, from *Salvia* 899
 Phenolics,
 antifungal, from *Phellinus* 1321
 changes in accumulation of, in elicited potato leaves 389
 from *Pinus* inner bark 1185
 from *Salvia* 145
 Phenylalanine ammonia lyase, from *Rhodotorula* 17
 Phenylpropanoid biosynthesis, in *Pimpinella* 397
 α -Phenylpyridylmethanols, synthesis of by *Catharanthus* cells 423
 Phloroglucinols, antibacterial, from *Hypericum* 185
Phycomyces blakesleeanus, acidic metabolites from 1427
Physalis alkekengi, 1 β -amino-2 α ,3 β ,5 β -trihydroxycycloheptane from 719
 Phytoalexin, and precursor, toxicity of to carrot cells 641
Phytolacca americana, betacyanins from 1039
 Phytolaccaceae 1039
 Phytosterols, from *Coriaria* 559
Picea abies, monoterpene hydrocarbons from 1289
Pilocarpus trachyllophus, imidazole alkaloid from 885
Pimpinella anisum, phenylpropanoid biosynthesis in 397
 Pinaceae 1051, 1185, 1289
Pinus, fatty acids and triacylglycerols from 1051
P. sylvestris, phenolics from 1185
Pisum sativum,
 2-deoxybrassinolide from 509
 lipid composition of symbiosomes from root nodules of 341
Plagiochila ovalifolia, phaeophytins from 427
 Plantaginaceae 1633
Plantago, iridoid glucosides from 1633
Platycodon grandiflorum, polyacetylenes from hairy roots of 69
Pleione bulbocodioides, stilbenoids from 853
 Podocarpaceae 453
 Polyacetylenes, from *Platycodon* hairy roots 69
 Polyene antifungals, nonsterol-related resistance to in *Ustilago* 637
 Polyketide, bis-tetrahydrofuran, from *Annona* seeds 705
 Polymer mobility, in transgenic tomato cell walls 301
 Polyphenol oxidase,
 from grapes, catalysing (+)-catechin coupling 1279
 from potato tubers, free from patatin 1499
 from *Vicia*, effect of sodium dodecyl sulphate on 1503
 inhibition of by copper-metallothionein from *Aspergillus* 935
 Polyphenols,
 from *Melaleuca* 1171
 iron-withholding, and plant resistance to pathogens 1551
 Polysaccharides,
 hot water-soluble, from tetrasporic *Pterocladia* 1071
 pectic, from *Cryptomeria* xylem-differentiating zone 611
Porella canariensis, sesquiterpenoids from 1361
Porphyridium cruentum, eicosapentaenoic acid biosynthesis in 1025
Portulaca oleracea, monoterpene glucoside from 1625
 Portulacaceae 1625
 Pregnane glycosides, from *Caralluma* 1135
 Prionitisides, from *Salvia* 899
 Proanthocyanidin
 oligomers, from *Guazuma* bark 109
 polymers, antisecretory, from *Guazuma* bark 109
 Proanthocyanidins,
 from *Hamamelis* 191
 from *Stryphnodendron* 857
 Progesterone, biotransformation of by *Chlorella* 685
 Propolis, HPLC and GC-MS identification of constituents in 205
 Protease, acidic amino acid-specific, from germinating soybeans 313
 Protein,
 oil body associated, from *Matricaria* 309
 polygalacturonase-inhibiting, from *Phaseolus* 1267
 Protein kinase,
 cyclic AMP-dependent, inhibition of by curcumin 599
 phosphatidylserine-sensitive calcium-dependent, in rice 21
 Protolimonoids, *seco*-, from *Trichilia* 1399
Prunus africana, triterpenes from 1387
P. cerasus, gibberellins from 913
Pseudomonas cepacia, 4-quinolinones from 365
Psoralea glandulosa, bakuchiol derivatives from 1299
 Pterocarpin, from *Erythrina* 1473
Pterocaulon purpurascens, highly oxygenated coumarin from 563
Pterocladia capillacea, hot water-soluble polysaccharides from 1071
Pueraria tuberosa, epoxychalcanol from 243
Pulsatilla chinensis, triterpenoids from 799
 Putrescine accumulation, in wounded green bananas 331
 Pyridine derivative, from *Albatrellus* 547

- Pyridazinone, substituted, and eicosapentaenoic acid biosynthesis of micro algae 1025
- Pyrimidone glucopyranosides, accumulation of in *Vicia* 63
- α -Pyrones, carboxylated, from *Dumortiera* 1693
- Pyrus serotina*, α -L-arabinofuranosidase from 295
- Q**
- Qianhucoumarin I, from *Peucedanum* 1689
- Quinic acid gallates, from *Guiera* 189
- Quinoline-2-carboxylic acids, from *Ephedra* 1477
- 4-Quinolines, plant growth-promoting and fungicidal, from *Pseudomonas* 365
- R**
- Radical-scavenging activity, of beticolin-1 from *Cercospora* 979
- Ranunculaceae 489, 535, 569, 799, 821, 875, 909, 1055, 1249, 1253, 1257
- Ranunculus asiaticus* malonylated anthocyanins from 1055
- Raphanus sativus*,
carbohydrate moieties of peroxidases from 287
proton pump activation and growth promotion by cinchomeronic acid in 1
- Rhamnaceae 565
- Rhodophyta 277, 1071, 1141, 1347, 1527, 1595
- Rhodotorula glutinis*, phenylalanine ammonia lyase from 17
- Rollinia mucosa*, acetogenins from 1081
- Rosaceae 163, 295, 373, 505, 903, 913, 1387
- Rosmarinic acid, from *Ocimum* hairy root cultures 431
- Rubber, from *Hevea*, molecular weight control mechanisms of 353
- Rubiaceae 633, 827, 985, 1131, 1149, 1227, 1391
- Rubus pinfaensis*, unsaturated E-ring triterpenes from 505
- Ruscus aculeatus*, sulphated steroids from 895
- Rutaceae 217, 221, 235, 595, 689, 695, 881, 885, 1109, 1175, 1207
- S**
- Sabiaceae 809
- Salacia beddomei*, lupane triterpenes from 789
- S. reticulata*, quinonemethides from 1377
- Salicaceae 1647
- Salvia amarissima*, neo-clerodane diterpene glycoside from 1105
- S. forskahlei*, abietane diterpene and phenolics from 145
- S. prionitis*, phenolic glycosides from 899
- S. yosgadensis*, sesterterpenes from 1089
- Sapindaceae 1357
- Saponins,
steroidal,
from *Solanum* 1409
from *Tribulus* fruits 1417
inhibiting cyclic phosphodiesterase, from *Nolina* 1609
sulphated, from *Ruscus* rhizome 895
with antitumour-promoter activity, from *Hosta* 1065
- triterpenoid,
dammarane, from *Bacopa* 815
from *Aralia* roots 1123
from *Bupleurum* 1673
from *Clematis* 821
from *Fagonia* 1405
from *Mussaenda* 827, 1131
highly polar, from *Ilex* 1119
- Scenedesmus*, cell wall sugars from 673
- Sclareolide, biotransformation of by *Cephalosporium* 1021
- Scrophulariaceae 89, 815
- Scutellaria*, neo-clerodane diterpenoids from 1059
- S. cypria*, neo-clerodane diterpenoids from 555
- Secoiridoid glycosides, from *Jasminum* 553, 1629
- Secoiridoids, acylated, from *Gentiana* 1305
- Senecio mikanioides*, xanthone from 1605
- Senna didymobotrya*, bianthraquinones from 1423
- Sesquiterpene
alcohols,
from *Chamaecyparis* leaf oil 159
from *Fitzroya* leaves 1015
hydrocarbons, in *Meum* essential oil 461
lactone glucoside, from *Arnica* flowers 1093
lactones
from *Artemisia* 469, 1231
from *Eirmocephala* and *Cyrtocymura* 1637
from *Gaillardia* 1367
from *Stevia* 681, 1369
guaianolide, from *Tanacetum* 757
pseudonanisin-like, from *Illicium* pericarps 1375
- Sesquiterpenoids,
bisabolene, from *Achillea* 737
seco-eremophilane, from *Petasites* rhizomes 751
eudesmane, from *Tanacetum* 747
from *Bazzania* and *Porella* 1361
from *Caryodaphnopsis* 1167
from *Jungermannia* 93, 1641
guaiane, hydroperoxylated, from *Viburnum* 741
phytotoxic, from *Botrytis* 383
piguisonone, from axenic *Aneura* culture 465
- Sesterterpenes, from *Salvia* 1089
- Sideritis*, isoscutellarein 7-glucosylxyloside from 101
- Smilax macrophylla*, keto fatty acid from 889
- Sodium dodecyl sulphate, effect of on polyphenol oxidase 1503
- Solanaceae 11, 169, 301, 325, 361, 389, 543, 589, 607, 617, 627, 719, 941, 949, 961, 1031, 1259, 1271, 1331, 1409, 1499, 1563, 1573
- Solanum arboreum*, steroidal glycoalkaloids from 543
- S. khasianum*, hydroxycinnamoylamide formation in 1573
- S. laxum*, steroidal saponins from 1409
- S. tuberosum*,
accumulation of phenolics in elicited cultures and leaves of 389
blackspot-related pigments from 941
induction of early mevalonate pathway enzymes in 1563
phenolic domain of suberin from 949
purification of polyphenol oxidase from 949
tuber-inducing activity of methyl 5'-5'-5'-trifluorojasmonate on 1259
- Somalene, from *Melanothamnus* 1141
- Sphaeropsis sapinea*, phytotoxic pimarane diterpene from 1541
- Sphagnum fallax*, 4'-O- β -D-glucosyl-cis-p-coumaric acid from 81
- Spinacia oleracea*, ecdysone 20-monooxygenase from 927
- Squalene synthase, from dandelion cultured cells 405
- Sterculiaceae 109
- Steroidal
alkaloid glycosides, from *Lycopersicon* 169
glycoalkaloids, from *Solanum* 543
glycosides, from *Tribulus*, 1677
lactones, from *Tacca* 891
- Sterol, C₂₆ from *Melanothamnus* 1141
- Sterol composition, of *Eurya* 1599
- Sterol content, in different organs of feverfew varieties 1603
- Stevia maimarensis*, sesquiterpene lactones from 681
- S. vaga*, sesquiterpene lactones from 1369
- Stilbene glucoside, from *Vitis* cell suspension cultures 1591
- Stilbenoids,
from *Agrostophyllum* 847, 1157
from *Pleione* 853
oligo-, from *Vitis* 1163
- Stryphnodendron adstringens*, prorobinetidinins from 857
- Suberin, from *potato*, phenolic domain of 949
- Sugars, cell wall, from *Scenedesmus* 673
- Sulphates, steroidal, from *Ruscus* 895
- Synedrellopsis grisebachii*, lignan from 681

- T**
Tacca plantaginea, steroidal lactones from 891
 Taccaceae 891
Taiwania cryptomerioides, terpenoids from 1657
Tanacetum argenteum, guaianolide from 757
T. praeteritum, eudesmane sesquiterpenes from 747
 Tannins,
 galloylhamameloses, from *Hamamelis* 191
 hydrolysable,
 from *Guiera* 189
 from *Melaleuca* 1171
Taraxacum officinale,
 flavonoids, cinnamic acids and coumarins from 121
 squalene synthase from 405
 Taxaceae 73, 787
 Taxanes,
 C-14 oxygenated, from *Taxus* cell cultures 73
 rearranged, from *Taxus* 787
 Taxodiaceae 611, 1657
Taxus wallichiana, rearranged taxane from 787
T. yunnanensis, C-14 oxygenated taxanes from 73
 Testosterone, hydroxylation of by *Cephalosporium* 411
Teucrium sandracicum, C-10 oxygenated neo-clerodane di-
 terpenes from 775
Thalictrum simplex, isoquinoline alkaloid *N*-oxides from 535
 Thiophenes, acetylenic, from *Blumea* 733
Thunbergia grandiflora, iridoid glycosides from 1223
 Thymeliaceae 1447
Tinospora rumphii, furanoid diterpene glycosides from 153
 Trace element concentrations, in *Musa* peel and trunk 1523
 Triacylglycerols, from *Pinus* seeds 1051
Tribulus terrestris, steroidal glycosides from 1417, 1677
Trichilia clausenii, cycloartane triterpenoid and ω -phenyl
 alkanoic acids from 795
T. elegans seco-protolimonoids from 1399
 Tripeptide, from *Lasallia* 839
 Triterpene glucuronosyltransferase, activity of in licorice
 cultured cells 665
 Triterpenoid glycosides,
 from *Margyricarpus* 163
 from *Meliosma* bark 809
 27-nor-, from *Adina* 1391
 Triterpenoids,
 acyclic, from *Ekebergia*, 803
 cycloartane,
 from *Cimicifuga* 489
 from *Trichilia* 795
 from *Aglaia* bark 1395
 from *Isodon* 1665
 from *Paradrymonia* 495
 from *Pentaclethra* root bark 501
 from *Prunus* bark 1387
 from *Pulsatilla* 799
 glabretal, from *Dysoxylum* 1667
 lupane, from *Salacia* 789
 oleanane, from *Canarina* 1115
 quinonemethide, from *Salacia* 1377
 tetracyclic, from *Glycosmis*, 1109
 tetrano-, from *Azadirachta* 561
 with unsaturated E-ring, from *Rubus*, 505
Triticum aestivum, diamine oxidase from 291
Turnera aestuifolia, biosynthesis of cyanohydrin glucosides
 from nitriles in 649
 Turneraceae 649
Turraea floribunda, limonoid from 1235
 Tyrosinase, from *Amanita*, involved in betalain biosyn-
 thesis 1511
- U**
 UDP-glucose pyrophosphorylase, from barley malt, kinetics
 of 955
 Umbelliferae 347, 397, 461, 641, 843, 1581, 1673, 1689
Urginea maritima, bufadienolides from 513
 Ursolic acid, from oleander, presence of in *Daphnis*
 moths 45
Urvillea uniloba, fatty acid composition of seed oils
 from 1357
Ustilago maydis, nonsterol-related resistance of to polyene
 antifungals 637
- V**
Vaccaria segetalis, cyclic heptapeptide from 439
Vellozia flavicans, isomeric diterpenes from 767
V. stipitata, tetranorfriedolabane diterpene from 771
 Velloziaceae 767, 771
Vepris bilocularis, pyranoquinolones and acridones from 881
Viburnum awabuki, hydroperoxylated guaiane sesquiterpenes
 from 741
Vicia, accumulation of vicine and convicine in 63
V. faba, effect of sodium dodecyl sulphate on polyphenol
 oxidase from 1503
 Vitaceae 1163, 1591
 Vitamine D₃, and its metabolites, in tomato 617
Vitis heyneana, oligostilbenes from 1163
V. vinifera, trans-resveratrol 3-glucoside from cultures of
 1591
 Volatiles,
 from *Conocephalum* 241
 from sawfly larvae-infested apple fruitlets 373
- W**
 Waxes, epicuticular,
 in *Arabidopsis*, developmental changes in 29
 of *Encephalartos* leaves 1335
 Wightionolides, from *Andrographis* 761
- X**
 Xanthones,
 from *Calophyllum* root bark 249
 from *Cratoxylum* roots 1195
 from *Senecio* leaves 1605
 furan-, from *Mammea* 245
 prenylated, from *Hypericum* cell cultures 435
Xylopia chumpionii, alkaloids from 1703
- Z**
Zanthoxylum simulans, alkaloids from 217
Zea mays,
 ammonium ion salvage by glutamate dehydrogenase in
 1491
 auxin inhibitor from shoots of 273
 C-1'-methyl abscisic acid metabolism and activity in 575
 Zingiberaceae 149, 599
Zizyphus mauritiana, cyclopeptide alkaloid from 565
 Zygophyllaceae 1405, 1417, 1677
Zythiostroma, diterpenoids from 1647