A review on presence of Oleanolic acid in Natural Products

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Abstract

Oleanolic acid (OA), a common phytochemical, is chosen as an example for elucidation of its presence in natural products by searching scientific databases. 146 families, 698 genera and 1620 species of natural products were found to have OA up to Sep 2007.

Keywords Oleanolic acid, natural products, plants, Chinese medicine, Linnaeus system of plant classification

Introduction

Oleanolic acid (OA), a common phytochemical, is chosen as an example for elucidation of its presence in natural products by searching scientific databases. .

Methodology of Review

Literature search for isolation and characterization of OA and/or its saponins in natural products was carried out for elucidating its pressence. The classification was based on Linnaeus system of plant classification from the databases of SciFinder and China Yearbook Full-text Database (CJFD).

Result of Review

Search results were tabulated (Table 1).

Table 1 Literature review of natural products containing OA and/or its saponins. The classification is based on Angiosperm Phylogeny Group APG II system of plant classification from the databases of SciFinder and China Yearbook Full-text Database (CJFD).

Family of plants	Plant scientific names	Position of plant to be isolated	Form of OA isolated	References
Acanthaceae Juss.	*Acanthus illicifolius* L.	Leaves	OA	[1-2]
Acanthaceae	*Avicennia officinalis* Linn.	Leaves	OA	[3]
Acanthaceae	*Blepharis sindica* Stocks ex T. Anders	Seeds	OA	[4]
Acanthaceae	*Dicliptera chinensis* (Linn.) Juss.	Whole plant	OA	[5]
Acanthaceae	*Justicia simplex*	Whole plant	OA saponins	[6]
Actinidiaceae Gilg. et Werderm.	*Actinidia arguta* (Sieb. et Zucc.) Planch. ex Miq.	Leaves or stems	OA	[7-8]
Actinidiaceae	*Actinidia deliciosa* C. F. Liang et A. R. Ferguson	Roots	OA	[9]
Actinidiaceae	*Clematoclethra actinidioides* (Maxim.) Y. C. Tang et Q. Y. Xiang	Twigs and Leaves	OA	[10]
Adoxaceae E. Mey.	*Sambucus adnata* Wall. ex DC.	Whole plant	OA	[11]

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Adoxaceae	*Sambucus canadensis* Linn.	Whole plant	OA	[12]
Adoxaceae	*Sambucus chinensis* Lindl.	Whole plant	OA	[13-15]
Adoxaceae	*Sambucus formosana* Nakai	Whole plant	OA	[16]
Adoxaceae	*Sambucus Mexicana* K. Presl ex. DC.	Whole plant	OA	[17]
Adoxaceae	*Sambucus nigra* L.	Bark of elder or flowers	OA	[18-21]
Adoxaceae	*Sambucus sieboldiana* var *miquelii* (Nakai) Hara.	Leaves	OA	[22]
Adoxaceae	*Sambucus williamsii* Hance.	Stem branch	OA	[23]
Adoxaceae	*Viburnum erubescens* Wall.	Whole plant	OA	[24]
Adoxaceae	*Viburnum lantana* Linn.	Leaves	OA	[25]
Adoxaceae	*Viburnum prunifolium* Linn.	Bark	OA	[26-27]
Adoxaceae	*Viburnum nervosum* J. D. Hooker & Thomson	Whole plant	OA	[28]
Adoxaceae	*Viburnum opulus* Linn.	Whole plant	OA OA saponins	[29-32]
		Leaves or barks	OA	
Adoxaceae	*Viburnum tinus* Linn.	Leaves	OA	[33-35]
Alliaceae Batsch ex Borkh.	Allium species	Whole plant	OA	[36]
Alliaceae	*Allium cepa* Linn.	Roots	OA	[37-39]
Alliaceae	*Allium sativum* L.	Roots	OA	[40]
Altingiaceae Horan.	*Liquidambar formosana* Hance	Fruits	OA	[41-42]
Altingiaceae	*Liquidambar orientalis* Miller.	Resin	OA 3-epi-OA	[43]
Amaranthaceae Juss.	*Achyranthes aspera* L.	Seed or fruits	OA saponins	[44-53]
		Roots	OA OA saponins	
Amaranthaceae	*Achyranthes bidentata* Bl.	Roots or aerial parts	OA saponins	[54-67]
		Seeds	OA	
Amaranthaceae	*Achyranthes fauriei* H. Lév. et Vaniot	Roots	OA OA saponins	[68-70]
Amaranthaceae	*Aerva lanata* L.	Whole plant	OA saponins	[71]
Amaranthaceae	*Aerva javanica* (Burm. f.) Juss. Ex Schult.	Leaves	OA	[72-73]
		Whole plant	OA saponins	

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Amaranthaceae	*Alfernanthera philoxtroides* (Mart) Griseb	Stems and leaves	OA saponins	[74]
Amaranthaceae	*Alternanthera philoxeroides* (Mart.) Griseb.	Stem leaves	OA OA saponins	[75-79]
Amaranthaceae	*Alternanthera pungens* Kunth	Fruits Whole plant	OA saponins OA	[80-81]
Amaranthaceae	*Alternanthera sessilis* (Linn.) D. C.	Leaves	OA saponins	[82-83]
Amaranthaceae	*Amaranthus cruentus* L.	Leaves	OA	[84]
Amaranthaceae	*Amaranthus muricatus* (Moquin) Gillies ex Hicken	Aerial parts	OA	[85]
Amaranthaceae	*Amaranthus spinosus* L.	Roots Leaves and stems	OA saponins OA	[86-87]
Amaranthaceae	*Anabasis articulate* L.	Leaves and stems	OA	[88]
Amaranthaceae	*Anabasis setifera* Moq.	Whole plant	OA saponins	[89]
Amaranthaceae	*Atriplex nummularia* Lindl.	Aeiral parts	OA	[90]
Amaranthaceae	*Atriplex stocksii* Boiss.	Whole plant	OA	[91]
Amaranthaceae	*Atriplex stylosa* Viv.	Aerial parts	OA saponins	[92]
Amaranthaceae	*Bassia muricata* Linn.	Aerial parts	OA saponins	[93-94]
Amaranthaceae	*Beta vulgaris* Linn.	Roots, leaves or tubers	OA OA saponins	[95-103]
Amaranthaceae (*Chenopodioideae*)	*Chenopodium album* Linn.	Seeds or flowers	OA saponins	[104-105]
Amaranthaceae (*Chenopodioideae*)	*Chenopodium ficifolium* Smith.	Aerial parts	OA OA saponins	[106]
Amaranthaceae (*Chenopodioideae*)	*Chenopodium pallidicaule* Aellen.	Seeds	OA saponins	[107]
Amaranthaceae (*Chenopodioideae*)	*Chenopodium quinoa* Willd.	Fruits, roots, leaves or seeds	OA OA saponins	[108-120]
Amaranthaceae	*Climacoptera transoxana* (Iljin) Botsch.	Aerial parts	OA saponins	[121-122]
Amaranthaceae (*Chenopodioideae*)	*Cornulaca monacantha* Delile	Aerial parts	OA saponins	[123]
Amaranthaceae	*Cyathula officinalis* Kuan	Roots	OA saponins	[124]
Amaranthaceae	*Gomphrena macrocephala* A St. –Hil.	Roots	OA saponins	[125]
Amaranthaceae (*Chenopodioideae*)	*Kochia scoparia* (Linn.) Schrad.	Fruits	OA OA saponins	[126-137]

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		Seeds	OA	
Amaranthaceae (*Chenopodioideae*)	*Kochia indica* Wight	Aerial parts	OA saponins	[138]
Amaranthaceae (*Chenopodioideae*)	*Kochia trichophylla* Stapf.	Whole plant	OA OA saponins	[139]
Amaranthaceae	*Pfaffia glomerata* (Sprengel) Pedersen	Whole plant	OA	[140]
Amaranthaceae (*Chenopodioideae*)	*Salsola micranthera* Botsch.	Aerial parts	OA saponins	[141-142]
Amaranthaceae (*Amaranthoideae*)	*Celosia argentae* Linn.	Whole plant	OA	[143]
Amaranthaceae	*Spinacia oleracea* Linn.	Aerial parts	OA saponins	[144]
Amaranthaceae (*Chenopodioideae*)	*Suaeda maritima* (Linn.) Dumort.	Fresh mangrove leaves	OA	[145]
Anacardiaceae R. Br.	*Anacardium occidentale* Linn.	Whole plant	OA	[146]
Anacardiaceae	Ozoroa mucronata (Bernh. ex Krauss) R. Fern. et A. Fern.	Whole plant	OA	[147]
Anacardiaceae	*Pistacia lentiscus* Linn.	Resin	OA	[148-149]
Anacardiaceae	*Pistacia lentiscus* Linn. var. *chia* Duhamel.	Resins	OA	[150]
Anacardiaceae	*Pistacia terebinthus* Linn.	Whole plant	OA	[151]
Anacardiaceae	*Pleiogynium solandri* (Benth.) Engl.	Stems, leaves, fruits	OA	[152]
Anacardiaceae	*Rhus javanica* Linn.	Roots	OA	[153]
Anacardiaceae	*Spondias mangifera* Willd.	Fruits	OA	[154]
Apiaceae Lindl.	*Ammi majus* L.	Fruits	OA	[155]
Apiaceae	*Astrantia major* L.	Leaves and roots	OA saponins	[156-157]
Apiaceae	*Bupleuri chinensis* DC.	Roots	OA OA saponins	[158-161]
		Aerial parts	OA saponins	
Apiaceae	*Bupleurum falcatum* Linn.	Roots	OA saponins	[162]
Apiaceae	*Bupleurum rigidum* Linn.	Roots and aerial parts	OA	[163]
Apiaceae	*Bupleurum rotundifolium* Linn.	Leaves, stems and roots	OA	[164-165]
Apiaceae	*Eryngium amethystinum* Linn.	Whole plant	OA	[166]
Apiaceae	*Eryngium bromeliifolium* Delar.	Leaves	OA OA saponins	[167-169]
Apiaceae	*Eryngium incognitum* Pavlov.	Roots	OA	[170]
Apiaceae	*Eryngium macrocalyx* Schrenk.	Whole plant	OA	[171]

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Apiaceae	*Foeniculum vulgare* Miller	Fruits	OA	[172]
Apiaceae	*Heracleum rapula* Franch.	Roots	OA	[173]
Apiaceae	*Ladyginia bucharica* Lipsky	Roots	OA OA saponins	[174]
Apiaceae	*Peucedanum stenocarpum* Boiss. et Revter	Whole plant	OA	[175]
Apocynaceae Juss.	*Alyxia buxifolia* R. Br.	Whole plant	OA	[176]
Apocynaceae	*Alyxia levinei* Merr.	Stems and leaves	OA	[177]
Apocynaceae	*Alyxia sinensis* Champ. ex Benth.	Stems	OA	[178]
Apocynaceae	*Amalocalyx yunnanensis* Tsiang	Whole plant	OA	[179]
Apocynaceae	*Amsonia grandiflora* Alexander	Stems and leaves	OA	[180]
Apocynaceae	*Apocynum cannabinum* L.	Rhizomes	OA	[181]
Apocynaceae	*Apocynum venetum* L.	Stems	OA acetate	[182]
Apocynaceae (*Asclepiadoideae*)	*Asclepias curassavica* L.	Whole plant	OA	[183]
Apocynaceae (*Asclepiadoideae*)	*Asclepias linaria* Cav. Romerillo	Whole plant	OA	[184]
Apocynaceae	*Calotropis procera* Ait.	Stems	OA saponins	[185-186]
Apocynaceae	*Catharanthus roseus* (Linn.) G. Don.	Leaves	OA	[187-188]
Apocynaceae (*Cynanchinae*)	*Cynanchum thesioides* (Freyn) K. Schum.	Fruits	OA	[189]
Apocynaceae (*Asclepiadaceae*)	*Gomphocarpus sinaicus* Boiss.	Whole plant	OA	[190]
Apocynaceae	*Gymnema alternifolium* (Lour.) Merr.	Stems	3-acetyl OA	[191]
Apocynaceae	*Gymnema syluestre* (Retz.) Schult.	Leaves	OA OA saponins	[192-194]
Apocynaceae	*Ichnocarpus frutescens* (Linn.) W. T. Aiton	Whole plant	OA	[195]
Apocynaceae (*Asclepiadoideae*)	*Leptadenia pyrotechnica* (Forssk.) Decne.	Whole plant	OA saponins	[196]
Apocynaceae (*Asclepiadoideae*)	*Leptadenia spartium* Wight et Arn.	Whole plant	OA	[197]
Apocynaceae (*Asclepiadaceae*)	*Marsdenia griffithii* Hook. f.	Stems	OA	[198]
Apocynaceae	*Melodinus australis* (F. Mueller) Pierre	Aerial parts	OA	[199]
Apocynaceae (*Asclepiadaceae*)	*Myriopteron extensum* (Wight et Arnott) K. Schum.	Whole plant	OA	[200]
Apocynaceae	*Nerium indicum* Mill.	Leaves of	OA	[201-203]

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		white-flowering plant		
Apocynaceae	*Nerium odorum* Soland	Leaves	OA	[204-205]
Apocynaceae	*Nerium oleander* Linn.	Leaves	OA	[206-208]
Apocynaceae (*Asclepiadaceae*)	*Pergularia extensa* (Jacq.) N. E. Br.	Leaves	OA	[209-210]
Apocynaceae (*Asclepiadoideae*)	*Periploca aphylla* Decne.	Aerial parts	OA	[211-212]
Apocynaceae (*Asclepiadoideae*)	*Periploca laevigata* Aiton	Fruit barks	OA	[213-215]
Apocynaceae	*Plumeria obtuse* Linn.	Leaves	OA	[216]
Apocynaceae	*Plumeria rubra* Linn.	Whole plant	OA	[217]
Apocynaceae (*Asclepiadaceae*)	*Sarcostemma viminale* (Linn.) R. Br.	Whole plant	OA	[218]
Apocynaceae (*Asclepiadaceae*)	*Stelmatocrypton khasianum* (Kurz) H. Baill.	Stems	3-acetyl OA	[219]
Apocynaceae (*Asclepiadoideae*)	*Streptocaulon griffithii* Hook. f.	Roots	OA	[220]
Apocynaceae	*Tabernaemontana divaricata* Linn.	Cultured cells	OA	[221]
Apocynaceae	*Thevetia neriifolia* Juss.	Leaves	OA	[222]
Apocynaceae	*Vinca rosea* Linn.	Whole plant	OA	[223]
Apocynaceae	*Wrightia tinctoria* (Roxb.) R. Br.	Pods	OA	[224-225]
Aquifoliaceae A. Rich.	*IIex aquifolium* Linn.	Leaves	OA	[226-227]
Aquifoliaceae	*Ilex argentina* Lillo	Whole plant	OA	[228]
Aquifoliaceae	*Ilex centrochinensis* S. Y. Hu	Leaves	OA	[229]
Aquifoliaceae	*Ilex cornuta* Lindl. et Paxton	Leaves	OA	[230]
Aquifoliaceae	*Ilex hylonoma* Hu et T. Tang	Leaves	OA saponins	[231]
Aquifoliaceae	*Ilex kudingcha* C. J. Tseng	Leaves	OA	[232]
Aquifoliaceae	*Ilex kwangtungensis* Merr.	Leaves	OA OA saponins	[233]
Aquifoliaceae	*Ilex latifolia* Thunb.	Leaves or stem bark	OA	[234-235]
Aquifoliaceae	*Ilex macrocarpa* Oliver	Dried leaves	OA	[236]
Aquifoliaceae	*Ilex opaca* Aiton	Whole plant	OA	[237]
Aquifoliaceae	*Ilex paraguariensis* A. St. Hil.	Leaves	OA saponins	[238-240]
Aquifoliaceae	*Ilex pubescens* Hook. et Am	Leaves	OA	[241]
Aquifoliaceae	*Ilex purpurea* Hassk.	Leaves	OA saponins	[242-243]
Araceae Juss.	*Arisarum vulgare* Targ.-Tozz.	Leaves and bulbs	OA saponins	[244]

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Araliaceae Juss.	*Acanthopanax giraldii* Harms	Stem bark	OA saponins	[245]
Araliaceae	*Acanthopanax hypoleucus* Makino	Leaves	OA saponins	[246]
Araliaceae	*Acanthopanax nipponicus* Makino	Leaves	OA saponins	[247]
Araliaceae	*Acanthopanax senticosus* (Rupr. et Maixm.) Harms	Seeds or leaves	OA OA saponins	[248-251]
Araliaceae	Acanthopanax sessiliflorus (Rupr. et Maxim.) Seem.	Fruits	OA	[252]
Araliaceae	*Acanthopanax sieboldianus* Makino	Leaves	OA saponins	[253]
Araliaceae	Aralia species	Tincture	OA saponins	[254]
Araliaceae	*Aralia armata* (Wall.) Seem.	Root bark	OA saponins	[255-257]
Araliaceae	*Aralia chinensis* L.	Roots Bark Shoots	OA OA saponins OA	[258-262]
Araliaceae	*Aralia continentalis* Kitagwa	Roots or aerial parts	OA saponins	[263-264]
Araliaceae	*Aralia cordata* Thunb.	Roots or aerial parts Shoots	OA OA saponins OA	[265-268]
Araliaceae	*Aralia dasyphylla* Miq.	Root barks Shoots	OA OA saponins OA	[269-272]
Araliaceae	*Aralia dasyphylla* Miq.	Leaves or root bark	OA OA saponins	[273-274]
Araliaceae	*Aralia decaisneana* Hance.	Roots or root barks	OA OA saponins	[275-282]
Araliaceae	*Aralia echnocaulis*	Shoots	OA	[283]
Araliaceae	*Aralia elata* Seem.	Root, root bark, buds, shoots or leaves	OA saponins	[284-309]
Araliaceae	*Aralia fargesii* Franch.	Whole plant	OA	[310]
Araliaceae	*Aralia mandshurica* Rupr. et Maxim.	Roots, stems or leaves	OA OA saponins	[311-321]
Araliaceae	*Aralia schmidtii* Pojark	Roots	OA	[322]
Araliaceae	*Aralia spinifolia* Merr.	Roots	OA saponins	[323-324]
Araliaceae	*Aralia subcapitata* Hoo.	Root	OA OA saponins	[325-327]

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Araliaceae	*Aralia taibaiensis* Z. Z. Wang et H. C. Zheng	Root, root bark, rhizomes, stem bark or leaves	OA OA saponins	[328-340]
		shoots	OA	
Araliaceae	*Aralia undulata* Hand.-Mazz.	Shoots	OA	[341]
Araliaceae (*Aralioideae*)	*Cussonia bancoensis* Aubrév. & Pellegr.	Stem bark	OA saponins	[342]
Araliaceae (*Aralioideae*)	*Cussonia barteri* Seemann	Stem bark	OA saponins	[343]
Araliaceae (*Aralioideae*)	*Cussonia bojeri* Seem.	Leaves	OA saponins	[344]
Araliaceae (*Aralioideae*)	*Cussonia paniculata* Eckl. & Zeyh.	Leaves	OA saponins	[345]
Araliaceae	*Cussonia spicata* Thunb.	Stem bark	OA saponins	[346]
Araliaceae	*Dizygotheca elegantissima* (Veitcyh. ex Mast.) Vig. & Guill.	Whole plant	OA saponins	[347]
Araliaceae	*Eleutherococcus senticosus* (Rupr. et Maxim.) Harms	Leaves	OA OA saponins	[348-349]
Araliaceae (*Aralioideae*)	*Fatsia japonica* (Thunb.) Decne. et Planch.	Flower buds, mature fruits, fruit percarps or leaves	OA saponins	[350-364]
Araliaceae	*Hedera canariensis* Willd.	Leaves	OA saponins	[365-366]
Araliaceae	*Hedera caucasigena* Pojack.	Leaves	OA saponins	[367-369]
Araliaceae	*Hedera colchica* K. Koch.	Leaves	OA OA saponins	[370-372]
Araliaceae	*Hedera helix* Linn.	Leaves, flowers or fruits	OA OA saponins	[373-379]
Araliaceae	*Hedera nepalensis* K. Koch.	Inflorescence	OA	[380-381]
		Stem bark	OA saponins	
Araliaceae	*Hedera pastuchowii* G. N. Woronow	Leaves	OA saponins	[382-383]
Araliaceae	*Hedera taurica* Carr.	Stems	OA saponins	[384-387]
Araliaceae	*Heteropanx fragrans* (Roxb.) Seemann	Stems and roots	OA	[388]
Araliaceae	*Kalopanax septemlobus* (Thunb.) Koidz.	Wood or roots	OA saponins	[389-392]
		Stem barks	OA	

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Araliaceae	*Kalopanax septemlobum Thunb.* var. *typicum* Maxim.	Leaves or stems	OA saponins	[393-394]
Araliaceae	*Kalopanax septemlobum* (Thunb.) Koidz var. *maximowiczii* (Van Houtte) Hara	Stems	OA saponins	[395]
Araliaceae (*Aralioideae*)	*Macropanax disperum* Blume	Leaves	OA OA saponins	[396]
Araliaceae	*Melastona dodecandrum* Lour.	Whole plant	OA	[397]
Araliaceae (*Aralioideae*)	*Meryta lanceolata* Hort.	Leaves and stems	OA saponins	[398-399]
Araliaceae	*Myodocarpus gracilis* (Dubard et R. Vig.) Lowry	Leaves and barks	OA	[400]
Araliaceae (*Aralioideae*)	*Nothopanax davidii* (Franch.) Harms ex Diels.	Barks	OA saponins	[401]
Araliaceae (*Aralioideae*)	*Oplopanax elatus* Nakai	Leaves	OA saponins	[402-403]
Araliaceae (*Aralioideae*)	*Panax ginseng* C. A. Meyer.	Roots Petiole of callus	OA OA saponins	[404-413]
Araliaceae (*Aralioideae*)	*Panax japonicus* C. A. Meyer	Stems, rhizomes or roots	OA OA saponins	[414-424]
Araliaceae (*Aralioideae*)	*Panax japonicus* C. A. Meyer var. *major* (Burk.) C. Y. Wu et K. M. Feng.	Roots	OA saponins	[425-427]
Araliaceae (*Aralioideae*)	*Panax pseudo-ginseng* Wall. *Panax pseudo-ginseng* Wall. subsp. *himalaicus* H. Hara.	Rhizomes or roots	OA OA saponins	[428-433]
Araliaceae (*Aralioideae*)	*Panax pseudoginseng* Wall. subsp. *himalaicus* H. Hara. var. *angustifolius* (Burk.) Li.	Leaves Rhizomes	OA OA saponins	[434-437]
Araliaceae (*Aralioideae*)	*Panax pseudoginseng* Wall. subsp. *himalaicus* H. Hara var. *bipinnatifidus* C. Y. Wu et Feng.	Rhizomes	OA saponins	[437-440]
Araliaceae (*Aralioideae*)	*Panax quinquefolium* Linn.	Roots or fruits	OA OA saponins	[441-448]
Araliaceae (*Aralioideae*)	*Panax stipuleanatus* C. T. Tsai et K. M. Meng	Stems and roots	OA saponins	[449-450]
Araliaceae (*Aralioideae*)	*Panax vietnamensis* Ha et Grushv	Rhizomes and roots	OA saponins	[451-452]

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Araliaceae (*Aralioideae*)	*Panax vietnamensis* Ha et Grushv. var. *fuscidiscus* K. Komatsu.	Roots	OA saponins	[453]
Araliaceae (*Aralioideae*)	*Panax zingiberensis* C. Y. Wu et K. M. Feng.	Roots	OA saponins	[454]
Araliaceae	*Pentapanax leschenaultia* (Wight et Arn.) Seem.	Fruits	OA	[455-456]
Araliaceae (*Aralioideae*)	*Polyscias amplifolia* (Baker) Harms	Flowers	OA saponins	[457-458]
Araliaceae (*Aralioideae*)	*Polyscias fruticosa* (Linn.) Harms	Roots or leaves	OA OA saponins	[459-461]
Araliaceae (*Aralioideae*)	*Polyscias scutellaria* (Burm. f.) Fosberg.	Leaves	OA saponins	[462-463]
Araliaceae (*Aralioideae*)	*Schefflera impresses* C. B. Clarke	Bark and stems	OA saponins	[464]
Araliaceae (*Aralioideae*)	*Schefflera arboricola* (Hayata) Kanehira	Leaves and stems	OA OA saponins	[465-468]
Araliaceae (*Aralioideae*)	*Schefflera abyssinica* (Hochst. Ex A. Rich.) Harms	Leaves	OA saponins	[469]
Araliaceae (*Aralioideae*)	*Schefflera capitata* Harms.	Whole plant	OA saponins	[470]
Araliaceae (*Aralioideae*)	*Schettlera delavayi* Haums ex Diels	Stem and root bark	OA saponins	[471-472]
Araliaceae (*Aralioideae*)	*Schefflera divaricata* Merill.	Aerial parts	OA saponins	[473]
Araliaceae (*Aralioideae*)	*Schefflera impressa* (C. B. Clarke) Harms.	Bark and stem	OA	[474]
Araliaceae (*Aralioideae*)	*Schefflera lucantha* Viguier.	Leaves	OA glycosides	[475]
Araliaceae (*Aralioideae*)	*Schefflera* sp.	Leaves	OA saponins	[476]
Araliaceae (*Aralioideae*)	*Schefflera venulosa* (Wight et Arn.) Harms.	Whole plant	OA	[477]
Araliaceae	*Scheffleropsis angkae* (Craib) Grushv. et Skvortsova	Leaves	OA saponins	[478-479]
Araliaceae	*Tetrapanax popyriferum* K. Koch.	Roots or stem barks	OA saponins	[480-484]
Arecaceae Bercht. et J. Presl.	*Areca catechu* L.	Whole plant	OA	[485]

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Asteraceae Martinov.	*Achillea teretifolia* Willd	Whole plant	OA	[486]
Asteraceae	*Achillea vermicularis* Trin.	Whole plant	OA	[487]
Asteraceae	*Adenocaulon himalaicum* Edgew	Whole plant	OA	[488]
Asteraceae	*Arnica chamissonis* Less.	Flowers	OA	[489]
Asteraceae	*Arnica foliosa* Nutt.	Flowers	OA	[490]
Asteraceae	*Arnica montana* L.	Flowers	OA	[491]
Asteraceae	*Artemisia* species	Aerial parts	OA	[492]
Asteraceae	*Artemisia absinthium* L.	Whole plant	OA	[493]
Asteraceae	*Artemisia sieversiana* Ehrh. ex Willd.	Aerial parts	OA	[494]
Asteraceae	*Aspilia kotschyi* (Sch. Bip.) Oliv	Leaves	OA OA saponins	[495-496]
Asteraceae	Aspilia montevidensis	Whole plant	OA	[497]
Asteraceae	*Aster hispidus* thunb.	Aerial parts	OA	[498]
Asteraceae	*Aster oharai* Nakai.	Aerial parts	OA	[499]
Asteraceae	*Aster scaber* Thunb.	Roots	OA saponins	[500-502]
Asteraceae	*Aster tataricus* L.	Rhizomes	OA	[503]
Asteraceae	*Aster yunnanensis* Franch.	Roots	OA saponins	[504-505]
Asteraceae	*Atractylis carduus* (Forssk.) C. Chr.	Aerial parts	OA	[506-507]
Asteraceae	*Atractylis gummifera* L.	Rhizomes	OA	[508]
Asteraceae	*Baccharis articulata* (Lam.) Pers.	Whole plant	OA	[509]
Asteraceae	*Baccharis conferta* Kunth.	Aerial parts	OA	[510]
Asteraceae	Baccharis crispa Spreng.	Whole plant	OA	[511]
Asteraceae	*Baccharis flabellata* Hook & Arn.	Aerial parts	OA	[512]
Asteraceae	*Baccharis gilliessi*	Whole plant	OA	[513]
Asteraceae	*Baccharis heterophylla* Kunth.	Leaf resin	OA	[514]
Asteraceae	*Baccharis leptophylla* DC.	Whole plant	OA	[515]
Asteraceae	*Baccharis ligustrina* DC.	Whole plant	OA	[516]
Asteraceae	*Baccharis linearis* (Ruiz et Pav.) Pers. Pomerillo	Leaves	OA	[517-520]
Asteraceae	*Baccharis myrtilloides* Griseb.	Whole plant	OA	[521]
Asteraceae	*Baccharis pingraea* DC.	Whole plant	OA	[522]
Asteraceae	*Baccharis pseudotenuifolia* DC.	Whole plant	OA	[523]
Asteraceae	*Baccharis rhetinodes* Meyen et Walpers	Whole plant	OA	[524]
Asteraceae	*Baccharis rhomboidalis* Rémy	Leaves	OA	[525-527]
Asteraceae	*Baccharis rufescens* Spreng.	Aerial parts	OA	[528]
Asteraceae	*Baccharis salicifolia* (Ruiz & Pavón) Pers. Jara	Aerial parts	OA	[529]

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Asteraceae	*Baccharis salicina* Torr. et A. Gray	Whole plant	OA	[530]
Asteraceae	*Baccharis solieri* J. Rémy	Whole plant	OA	[531]
Asteraceae	*Baccharis tola* Phil.	Whole plant	OA	[532]
Asteraceae	*Baccharis ulicina* Hook. et Arn.	Whole plant	OA	[533]
Asteraceae	*Bellis perennis* Linn.	Whole plant	OA saponins	[534]
Asteraceae	*Bidens parviflora* Willd.	Aerial parts	OA	[535]
Asteraceae	*Bidens subalternans* DC.	Whole plant	OA	[536]
Asteraceae	*Bidens tripartita* Linn.	Whole plant	OA	[537]
Asteraceae	*Blumea balsami fera* (L.) DC.	Leaves	OA	[538]
Asteraceae	*Borrichia frutescens* (L.) DC.	Whole plant	OA	[539]
Asteraceae	*Cacalia auriculata* DC.	Roots	OA acetate	[540]
Asteraceae	*Cacalia hastate* L. Poima	Leaves	OA	[541]
Asteraceae	*Cacalia pilgeriana* (Diets) Ling.	Aerial parts	OA	[542]
Asteraceae	*Calendula arvensis* Linn.	Aerial parts	OA saponins	[543-544]
Asteraceae	*Calendula officinalis* Linn	Bud of flowers seeds, leaves, shoots, fruits or roots	OA OA saponins	[545-578]
Asteraceae	*Carduus nigrescens* Vill.	Seed	OA	[579]
Asteraceae	*Centaurea cuneifolia* Sibth. et Sm.	Aerial parts	OA	[580]
Asteraceae	*Chrysanthellum americanum* (L.) Vatke	Whole plant	OA	[581-582]
Asteraceae	*Chrysanthellum procumbens* A. Rich.	Whole plant	OA saponins	[583]
Asteraceae	*Cirsium segetum* (Bge. Kitam)	Whole plant	OA	[584]
Asteraceae	*Cnicus benedictus* Linn.	Whole plant	OA	[585-586]
Asteraceae	*Crepis aspera* Linn.	Aerial parts	OA	[587]
Asteraceae	*Cynara cardunculus* Linn.	Whole plant	OA saponins	[588]
Asteraceae (*Barnadesioideae*)	*Dasyphyllum excelsum* (D.Don) Cabrera	Epicuticular wax	OA	[589]
Asteraceae	*Eclipta alba* (Linn.) Hassk.	Whole plant	OA saponins	[590-592]
Asteraceae	*Erigeron annuus* (Linn.) Pers.	Aerial parts	OA	[593]
Asteraceae	*Erigeron Canadensis* Linn.	Whole plant	OA	[594]
Asteraceae	*Flaveria trinervia* (Spreng.) C. Mohr.	Leaves	OA	[595]
Asteraceae	*Glossogyne tenuifolia* (Labill.) Cassini	Aerial parts	OA	[596-597]
Asteraceae	*Grindelia lanceolata* Nutt.	Aerial parts	OA	[598]
Asteraceae	*Grindelia robusta* Nutt.	Aerial parts	OA	[599]
Asteraceae	*Gundelia tournefortii* Linn.	Roots	OA saponins:	[600]
Asteraceae	*Helianthus annuus* Linn.	Young shoots	OA	[601-603]

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(*Helianthoideae*)				
		Flowers	OA saponins	
Asteraceae	*Helichrysum mundii* Harv.	Whole plant	OA	[604]
Asteraceae	*Helichrysum picardii* Boiss. et Reuter	Aerial parts	OA	[605]
Asteraceae	*Helichrysum stoechas* (Linn.) Moench	Aerial parts	OA	[606]
Asteraceae	*Helichrysum rupestre* (Rafin.) DC.	Leaves	OA	[607]
Asteraceae	*Heliopsis scabra* Dunal.	Foliage	OA	[608]
Asteraceae	*Hinterhubera imbricata* Cuatrec. et Aristeguieta	Aerial parts	OA	[609]
Asteraceae (*Asteroideae*)	*Inula cappa* (Buch.-Ham.) DC.	Bark	OA	[610]
Asteraceae (*Asteroideae*)	*Inula nervosa* Wall.	Whole plant	OA	[611]
Asteraceae [*Cichorioideae* (*Lactuceae*)]	Ixeris debilis (Thunb.) A. Gray	Whole plant	OA	[612]
Asteraceae [*Cichorioideae* (*Lactuceae*)]	*Ixeris sonchifolia* Hance	Whole plant	OA	[613]
Asteraceae [*Cichorioideae* (*Lactuceae*)]	*Ixora coccinea* Linn.	Flowers	OA	[614]
Asteraceae	*Lactuca scariola* Linn.	Seeds	OA saponins	[615]
Asteraceae	*Leontopodium nanum* (Hook. f. et Thoms.) Hand.-Mazz.	Whole plant	OA	[616]
Asteraceae	*Lepidophyllum cupressiforme* (Lamarck) Cassini	Aerial parts	OA	[617]
Asteraceae	*Ligularia kanaitzensis* (Franch.) Hand.-Mazz.	Roots and rhizomes	OA	[618]
Asteraceae	*Ligularia pleurocaulis* (Franch.) Hand.-Mazz.	Underground parts	OA	[619]
Asteraceae	*Lindheimera texana* Gray et Engelm.	Aerial parts	OA	[620]
Asteraceae	*Matricaria chamomilla* Linn.	Flowers	OA	[621]
Asteraceae	*Melanthera scandens* (Schumach. et Thonn.) Roberty.	Leaves	OA saponins	[622]
Asteraceae	*Mikania monagasensis* V.M. Badillo.	Whole plant	OA	[623]
Asteraceae	*Senecio burtonii* Hook. f.	Whole plant	OA	[624]

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Asteraceae	*Olearia paniculata* (J. R. Forst. et G. Forst.) Druce.	Bark	OA	[625]
Asteraceae	*Olearia nummularifolia* Hook. f.	Leaves	OA	[626]
Asteraceae	*Parthenium hysterophorus* Linn.	Leaves	OA OA saponins	[627-628]
Asteraceae	*Pertya robusta* (Maxim.) Beauverd	Whole plant	OA	[629]
Asteraceae	*Rhaponticum uniflorum* (Linn.) DC.	Roots	OA	[630]
Asteraceae	*Saussurea nutans* Nakai.	Aerial parts	OA	[631]
Asteraceae	*Scorzonera hispanica* Linn.	Tissue cultures	OA	[632]
Asteraceae	*Senecio yegua* (Colla) Cabr. var. *depilis* (Phil.) Cabr.	Whole plant	OA	[633]
Asteraceae	*Silphium integrifolium* Michx.	Leaves, inflorescences and rhizomes	OA	[634]
Asteraceae	*Silphium perfoliatum* Linn.	Aerial parts	OA OA saponins	[635-639]
Asteraceae	*Silphium integrifolium* Michx. *Silphium trifoliatum* Linn.	Vegetative and generative organs	OA saponins	[640]
Asteraceae	*Solidago Canadensis* Linn.	Flowers	OA OA saponins	[641-642]
Asteraceae	*Solidago gigantean* Ait	Flowers	OA OA saponins	[643-645]
Asteraceae	*Solidago virgaurea* Linn.	Flowers	OA	[646-649]
Asteraceae	*Sonchus oleraceus* Linn.	Whole plant	OA	[650]
Asteraceae	*Soroseris gillii* (S. Moore) Stebbins	Whole plant	OA	[651]
Asteraceae	*Synedrella nodiflora* (Linn.) Gaertn.	Whole plant	OA saponins	[652]
Asteraceae	*Taraxacum officinale* Weber ex F. H. Wigg.	Calli	OA	[653-654]
Asteraceae	*Taraxacum* Cass.	Whole plant	OA	[655]
Asteraceae	*Tridax procumbens* Linn.	Whole plant	OA	[656]
Asteraceae	*Viguiera hypargyrea* Blake.	Roots	OA OA saponins	[657]
Asteraceae	*Wedelia calendulaceae* Less.	Leaves	OA saponins	[658]
Asteraceae	*Wedelia Paludosa* D.C.	Whole plant	OA	[659]
Asteraceae	*Youngia japonica* (Linn.) DC.	Aerial parts	OA	[660]
Asteraceae	*Youngia koidzumiana* Kitamura	Whole plant	OA	[661-662]
Asteraceae	*Zexmenia buphthalmiflora* Lorentz.	Aerial parts	OA saponins	[663]

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Basellaceae Raf.	*Anredera diffusa* (R. et P.) Soukup	Leaves and stem	OA saponins	[664]
Basellaceae	*Basella rubra* Linn.	Aerial parts	OA saponins	[665]
Berberidaceae Juss	*Berberis vulgaris* Linn.	Fruits	OA	[666]
Berberidaceae	*Epimedium truncatum* H. R. Liang	Aerial parts	OA	[667]
Berberidaceae	*Epimedium wushanense* Ying.	Roots	OA	[668]
Berberidaceae	*Leontice Kiangnanensis* P. L. Chiu	Tubers	OA saponins	[669-671]
Betulaceae Gray.	*Betula alba* Linn.	Bark and branches	OA	[672]
Betulaceae	*Betula cortex* aeth	Outer bark	OA	[673]
Betulaceae	*Betula costata* Trautv.	Bark	OA	[674]
Betulaceae	*Betula davurica* Pall.	Leaves	OA, OA acetate, OA caffeate	[675]
Betulaceae	*Betula ermanii* Cham.	Leaves or bark	OA	[676-677]
Betulaceae	*Betula dahurica* Pall.	Bark and branch	OA	[678-679]
Betulaceae	Betula mandschurica (Regel) Nakai (Art)	Outer bark	OA	[680]
Betulaceae	*Betula maximowicziana* Regel.	Leaves	Acetyl OA	[681]
Betulaceae	*Betula pendula* Roth.	Barks	OA	[682-683]
Betulaceae	*Betula platyphylla* Suk.	Bark	OA	[684-686]
Betulaceae	*Betula platyphylla* Suk. var. *japonica* (Sieb.) Hara	Leaves	OA 3-O-acetate	[687]
Betulaceae	*Betula pubescens* Ehrh.	Barks	OA	[688-689]
Betulaceae	*Betula schmidtii* Regel.	Outer bark of root bark	OA	[690]
Betulaceae	*Betula utilis* D. Don.	Outer bark	OA	[691-692]
Bignoniaceae Juss.	*Arrabidaea triplinervia* (Mart. ex DC.) Baill.	Leaves	OA	[693]
Bignoniaceae	*Astianthus viminalis* (H. B. Kunth.) Baill.	Leaves	OA	[694]
Bignoniaceae	*Campsis grandifora* (Thunb.) K. Schum. *Campsis gradifora* (Thunb.) Loisel.	Flowers or leaves	OA	[695-698]
Bignoniaceae	*Cybistax antisiphylitica* Mart. ex DC.	Whole plant	OA	[699]
Bignoniaceae	*Heterophragma adenophyllum* (Wall. ex G. Don.) Seem. ex Benth. et Hook. f.	Whole plant	OA	[700]
Bignoniaceae	*Incarvillea arguta* (Royle) Royle	Roots	OA	[701]
Bignoniaceae	*Jacaranda mimosaefolia* D. Don	Root bark	OA	[702]
Bignoniaceae	*Markhamia acuminata* (Klotzsch) K. Schum.	Leaves	OA	[703]
Bignoniaceae	*Millingtonia hortensis* Linn. f.	Pods	Acetyl OA	[704]

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Bignoniaceae	*Newbouldia laevis* (P. Beauv.) Seeman ex Bureau.	Root bark or leaves	OA	[705-708]
Bignoniaceae	*Pyrostegia venusta* (Ker. –Gawl.) Miers.	Flowers	OA	[709]
Bignoniaceae	*Spathodea campanulata* Beauv.	Stem bark or leaves	OA	[710-711]
Bignoniaceae	*Tabebuia pentaphylla* (Linn.) Hemsl.	Stem bark and root heartwood	OA	[712-713]
Bignoniaceae	*Tecoma stans* (Linn.) Juss. ex Kunth	Calli	OA	[714]
Bignoniaceae	*Tecomella undulate* (Sw.) Seem.	Leaves	OA	[715-716]
Bombacaceae Kunth.	*Gossampinus malabarica* (L.) Merr.	Roots	OA	[717]
Boraginaceae Juss.	*Anchusa officinalis* L.	Whole plant	OA saponins	[718-720]
Boraginaceae	*Cordia piauhiensis* Fresen	Stems	OA saponins	[721-722]
Boraginaceae	*Cordia trichotoma* (Vell.) Arrab. ex Steudel.	Heart wood	OA	[723]
Boraginaceae	*Messerschmidia argentea* (Linn. f.) I. M. Johnst.	Twigs	OA acetate	[724]
Boraginaceae	*Symphytum officinale* Linn.	Roots	OA saponins	[725]
Boraginaceae	*Tournefortia hartwegiana* Steud.	Aerial parts	OA	[726-727]
Brassicaceae Burnett	*Barbarea vulgaris* R. Br.	Leaves	OA saponins	[728]
Brassicaceae	*Coronopus didymus* (L.) Smith.	Whole plant	OA	[729]
Burseraceae Kunth.	*Boswellia serrata* Roxb.	Resin	OA	[730-732]
Burseraceae	*Canarium schweinfurthii* Engl.	Oleoresin	OA	[733]
Burseraceae	*Commiphora myrrha* (Nees) Engl.	Resin	OA	[734]
Burseraceae	*Commiphora tenuis* Vollesen	Bark	OA acetate	[735]
Buxaceae Dumort.	*Sarcococca coriacea* (Hook.) Sweet.	Flowers	OA	[736-737]
Buxaceae	*Sarcococca hookeriana* Baillon	Aerial parts	OA	[738]
Cactaceae Juss.	*Epithelantha micromeris* (Kuntze) Weber.	Cactus	OA	[739-741]
Cactaceae	*Heliabravoa chende* (Roland-Gosselin) Backeberg	Cactus	OA	[742]
Cactaceae (*Cactoideae*)	*Lemaireocereus aragonii* (F.A.C. Weber) Britton et Rose.	Whole plant	OA	[743]
	Lemaireocereus pruinosus (Otto) Britton et Rose			
	Lemaireocereus stellatus (Pfeiffer) Britton et Rose.			

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Cactaceae (*Cactoideae*)	*Lemaireocereus chichipe* (Roland-Gosselin) Britton et Rose	Whole plant	OA	[744]
Cactaceae (*Cactoideae*)	*Lemaireocereus dumortieri* (Scheidw.) Britton et Rose	Whole plant	OA	[745]
Cactaceae (*Cactoideae*)	*Lemaireocereus griseus* (Haworth) Britton et Rose	Whole plant	OA	[746]
Cactaceae (*Cactoideae*)	*Lemaireocereus hystrix* (Haworth) Britton et Rose	Whole plant	OA	[747]
Cactaceae (*Cactoideae*)	*Lemaireocereus logispinus* (Haworth) Britton et Rose	Whole plant	OA	[748]
Cactaceae (*Cactoideae*)	*Lemaireocereus thurberi* (Engelm.) Britton et Rose	Whole plant	OA	[749-750]
Cactaceae	*Machaerocerues gummosus*	Whole plant	OA	[751]
Cactaceae [*Cactoideae* (*Pachycereeae*)]	*Myrtillocactus cochal* (Orcutt) Britton et Rose.	Cactus	OA	[752]
Cactaceae (*Pereskioideae*)	*Pereskia grandifolia* Haw.	Whole plant	OA saponin	[753]
Cactaceae [*Cactoideae* (*Rhipsalideae*)]	*Rhipsalis mesembrianthemoides* (Haw.) Lem.	Cactus	OA	[754]
Cactaceae (*Cactoideae*)	*Trichocereus chiloensis* (Colla) Britton et Rose.	Whole plant	OA	[755]
Cactaceae (*Cactoideae*)	*Trichocereus cuzcoensis* Britton et Rose.	Whole plant	OA	[756]
Campanulaceae Juss.	*Adenophora stenanthina* (Ledeb.) Kitagawa	Roots	OA	[757]
Campanulaceae	*Campanula istriaca* Feer	Aerial parts	OA	[758]
Campanulaceae	*Codonopsis lanceolata* (Sieb. et Zucc.) Trautv.	Roots	OA	[759]
Campanulaceae (*Lobelioideae*)	*Lobelia clavata* E. Wimm.	Whole plant	OA	[760]
Campanulaceae	Platycodon grandiflorum (Jacq.) A. DC.	Roots	OA	[761]
Capparaceae Juss.	*Crateva religiosa* G. Forst.	Seeds	OA	[762]
Caprifoliaceae Juss.	*Lonicera angustifolia* Wall. ex DC.	Leaves	OA	[763]
Caprifoliaceae	*Lonicera bournei* Hemsl.	Flower buds	OA	[764-765]
Caprifoliaceae	*Lonicera japonica* Thunb.	Flowers buds	OA saponins	[766-768]
Caprifoliaceae	*Lonicera nigra* Linn.	Berries	OA saponins	[769]

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Caprifoliaceae	*Symphoricarpos albus* (Linn.) S. F. Blake	Leaves or fruits	OA	[770-771]
Caprifoliaceae	*Symphoricarpos racemosus* Hooker.	Leaves	OA	[772]
Cannabaceae Endl.	*Trema cannabina* Lour.	Leaves	OA acetate	[773]
Cannabinaceae Endl.	*Humulus lupulus* Linn.	Tissue culture	OA	[774]
Caryocaraceae Szyszyl.	*Caryocar brasiliense* Cambess.	Leaves	OA	[775]
Caryocaraceae	*Caryocar microcarpum* Ducke.	Leaves	OA saponins	[776]
Caryophyllaceae Juss.	*Dianthus barbatus* Linn.	Aerial parts	OA	[777]
Caryophyllaceae	*Drymaria diandra* Blume	Whole plant	3-acetyl OA	[778]
Caryophyllaceae	*Drymaria drummondii* Hook.	Whole plant	OA	[779]
Caryophyllaceae	*Gypsophila bermejoi* G. López	Roots	OA	[780]
Caryophyllaceae	*Gypsophila oldhamiana* Miq.	Roots	OA	[781]
Caryophyllaceae	*Gypsophila struthium* Loefl.	Roots	OA	[782]
Caryophyllaceae	*Silene succulenta* Forssk	Whole plant	OA	[783]
Caryophyllaceae	*Spergularia arbuscula* (Gay) I.M.Johnst.	Whole plant	OA saponins	[784]
Caryophyllaceae	*Vaccaria segetalis* (Neck.) Garcke.	Seeds	OA saponins	[785]
Casuarinaceae R. Br.	*Casuarina equisetifolia* Linn.	Twigs and leaves	OA	[786]
Cecropiaceae C.C. Berg.	*Pourouma guianensis* Aubl.	Leaves	OA	[787]
Celastraceae R. Br.	*Cassine glauca* (Rottb.) Kuntze.	Whole plant	OA	[788]
Celastraceae	*Celastraceae* R. Br.	Whole plant	OA	[789]
Celastraceae	*Euonymus bungeanus* Maxim.	Woody part of stems	OA	[790]
Celastraceae	*Gymnosporia montana* (Roth.) Benth.	Stem bark, root bark and leaves	3-O-acetyl OA	[791]
Celastraceae	*Gymnosporia varialilis* Loes	Aerial parts	OA	[792]
Celastraceae	*Maytenus boaria* Molina	Leaves and stems	OA	[793-794]
Celastraceae	*Tripterygium hypoglaucum* (Levl.) Hutch.	Roots	OA	[795-796]
Celastraceae	*Tripterygium wilfordii* Hook. f.	Leaves and stems	OA	[797-798]
Celastraceae	*Zinowiewia integerrima* Turcz.	Root bark	OA	[799]
Chrysobalanaceae R. Br.	*Chrysobalanus icaco* Linn.	Leaves	OA	[800]
Chrysobalanaceae	*Couepia paraensis* (Mart. et Zucc.) Benth.	Whole plant	OA	[801]
Chrysobalanaceae	*Couepia polyandra* (Kunth) Rose	Whole plant	OA	[802]

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Chrysobalanaceae	*Couepia ulei* Pilger	Stems	OA	[803]
Chrysobalanaceae	*Licania pittieri* Prance	Leaves	OA	[804]
Chrysobalanaceae	*Licania licaniaeflora* (Sagot) Blake	Leaves	OA	[805]
Chrysobalanaceae	*Licania tomentosa* (Benth.) Fritsch.	Leaves and fruits	OA	[806]
Chrysomelidae Latreille	*Platyphora kollari* Baly	Leaves	OA OA saponins	[807-808]
Chrysomelidae	*Platyphora opima* Linn.	Whole plant	OA saponins	[809]
Clusiaceae Lindl.	*Allanblackia monticola* Mildbr.	Stem bark	OA acetate	[810]
Clusiaceae (*Clusioideae*)	*Clusia hilariana* Schlecht.	Whole plant	OA	[811]
Clusiaceae (*Clusioideae*)	*Clusia octopetala* Cuatrec.	Fruit	OA	[812]
Clusiaceae (*Clusioideae*)	*Clusia rosea* Jacq.	Whole plant	OA	[813-814]
Clusiaceae (*Clusioideae*)	*Garcinia polyantha* Oliv.	Stem bark	OA	[815-816]
Clusiaceae (*Clusioideae*)	*Garcinia vilersiana* Pierre.	Bark	OA	[817]
Clusiaceae (*Clusioideae*)	*Garcinia xanthochymus*	Whole plant	OA	[818]
Clusiaceae (*Hypericoideae*)	*Hypericum geminiflorum* Hemsley	Roots	OA	[819]
Clusiaceae (*Hypericoideae*)	*Hypericum monogynum* Linn.	Aerial parts	OA	[820]
Clusiaceae (*Hypericoideae*)	*Hypericum patulum* Thunb. ex Murray	Cell suspension cultures	OA	[821]
Clusiaceae (*Hypericoideae*)	*Hypericum wightianum* Wallex Wight et Arn.	Whole plant	OA	[822]
Clusiaceae [*Kielmeyeroideae* (*Calophylleae*)]	*Mesua myrtifolia* (Baill.) Kosterm.	Timber	OA	[823]
Clusiaceae	*Rheedia gardneriana* Planch. et Triana.	Fruits	OA	[824-825]
Clusiaceae	*Symphonia globulifera* Linn. f.	Seed shells	OA	[826-828]
Cochlospermaceae Planch.	*Cochlospermum angolense* Welw. ex Oliv.	Roots	OA	[829]
Combretaceae R. Br.	*Terminalia alata* Heyne ex Roth.	Root bark or heartwood	OA	[830-831]
Combretaceae	*Terminalia arjuna* Linn.	Root bark or heartwood	OA	[832-833]
Combretaceae	*Terminalia catappa* Linn.	Bark	OA	[834]

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Combretaceae	*Terminalia glabrescens* Mart.	Leaves	OA	[835]
Combretaceae	*Terminalia myriocarpa* Huerck & Muell.Arg.	Bark	OA	[836]
Combretaceae	*Terminalia pallida* Brandis.	Whole plant	OA	[837]
Combretaceae	*Terminalia tomentosa* Wight et Arn	Heart wood or timber	OA	[838-839]
Convolvulaceae Juss.	*Argyreia argentea* (Roxb.) Choisy.	Aerial parts	OA	[840]
Convolvulaceae	*Convolvulus hystrix* Vahl.	Whole plant	OA	[841]
Convolvulaceae	*Cuscuta reflexa* Roxb.	Whole plant	OA	[842]
Convolvulaceae	*Evolvulus nummularius* (Linn.) Linn.	Aerial parts	OA	[843]
Coriariaceae DC.	*Coriaria nepalensis* Wall.	Aerial parts	OA	[844]
Cornaceae Dumort.	*Cornus capitata* Wall.	Stems	OA	[845]
Cornaceae	*Cornus officinalis* Sieb. et Zucc.	Fruits or seeds	OA	[846-850]
Cornaceae (*Nyssaceae*)	*Nyssa ogeche* Bartram ex Marshall.	Aerial parts	OA	[851]
Crassulaceae J. St.-Hill.	*Sedum aizoon* Linn. *Sedum hybridum* Linn. *Sedum purpureum* (Linn) Schultes	Underground portions	OA	[852]
Cucurbitaceae Juss.	*Actinostemma lobatum* Maxim	Seeds	OA saponins	[853]
Cucurbitaceae	*Cucumis trigonus* Roxb. (Kachri)	Whole plant	OA	[854]
Cucurbitaceae	*Ecballium elaterium* (Linn.) A. Rich.	Fruits	OA saponins	[855]
Cucurbitaceae [*Zanonoioideae* (*Gomphogyninae*))	*Gynostemma pentaphyllum* (Thunb.) Makino	Whole plant	OA	[856-857]
Cucurbitaceae	*Hemsleya amabilis* Diels	Rhizomes or stems	OA OA saponins	[858-859]
Cucurbitaceae	*Hemsleya emeiensis* L. T. Shen et W. J. Chang	Tubers	OA saponins	[860]
Cucurbitaceae	*Hemsleya gigantha* W. J. Chang	Roots	OA saponins	[861-863]
Cucurbitaceae	*Hemsleya graciliflora* (Harms) Cogniaux.	Fruits or rhizomes	OA saponins	[864-866]
Cucurbitaceae	*Hemsleya macrosperma* C. Y. Wu	Rhizomes Stems	OA saponins OA	[867-868]
Cucurbitaceae	*Hemsleya pengxianensis* W. J. Chang	Tubers	OA saponins	[869]
Cucurbitaceae	*Hemsleya pengxianensis* var. *gulinensis* L. T. Shen et W. J. Chang	Roots	OA saponins	[870-871]

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Cucurbitaceae	*Hemsleya mitrata* C. Y. Wu	Stems	OA	[872]
Cucurbitaceae	*Hemsleya sinesis* Cogniaux	Rhizomes	OA saponins	[873]
Cucurbitaceae (*Cucurbitoideae*)	*Lagenaria breviflora* (Benth.) Roberty	Fruit pulp	OA OA saponins	[874-875]
Cucurbitaceae	*Luffa acutangula* (Linn.) Roxb.	Seeds Fruits and leaves	OA OA saponins OA saponins	[876-880]
Cucurbitaceae	*Luffa aegyptica* Miller.	Seeds Fruits and leaves	OA OA saponins OA saponins	[881-883]
Cucurbitaceae	*Luffa cylindrica* (Linn.) M. Roem.	Roots or flowers Fruit and leaves	OA OA saponins	[884-894]
Cucurbitaceae	*Luffa echinata* Roxb.	Fruits	OA	[895]
Cucurbitaceae	*Luffa echinata* Roxb. var. *longistyla* Edgew.	Seeds	OA	[896]
Cucurbitaceae	*Luffa graveolens* Roxb.	Seeds or fruits and leaves	OA OA saponins	[897-898]
Cucurbitaceae	*Melothria indica* Lour.	Roots	OA	[899]
Cucurbitaceae	*Momordica accharantia* spp. Fam.	Whole plant	OA	[900]
Cucurbitaceae	*Momordica balsamina* Linn.	Whole plant	OA	[901]
Cucurbitaceae	*Momordica cochinchinensis* (Lour.) Spreng.	Root or tubers Seeds	OA saponins OA	[902-907]
Cucurbitaceae	*Momordica dioica* Roxb. ex Willd.	Rhizomes	OA	[908-909]
Cucurbitaceae	*Trichosanthes cucumerina* Linn.	Whole plant	OA	[910]
Curculionidae Latreille (Dryophthorinae) (Animalia)	*Sitophilus oryzae* Linn.	Aerial parts	OA	[911]
Cyatheaceae Kaulfuss.	*Cyathea gigantea* (Wall. ex Hook.) Holtt.	Whole plant	OA	[912]
Cynomoriaceae Lindl.	*Cynomorium songaricum* Rupr.	Stems	OA	[913-914]
Cyperaceae Juss.	*Cyperus capitatus*	Rhizomes	OA	[915]

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Cyperaceae	*Cyperus rotundus* Vandelli	Tubers, rhizomes	OA OA saponins	[916-917]
Datiscaceae Dumort.	*Datisca cannabina* Linn.	Aerial parts	OA	[918]
Dipsacaceae Juss.	*Cephalaria gigantean* (Ledeb.) Bobrov	Aerial parts Roots	OA OA saponins	[919-924]
Dipsacaceae	*Cephalaria transsylvanica* (Linn.) Roem. et Schult.	Stems	OA	[925]
Dipsacaceae	*Cephalaria kotschyi* Boiss. et Hohen.	Flowers and roots	OA	[926]
Dipsacaceae	*Cephalaria nachiczevanica* Bobr.	Flowers and roots	OA	[927]
Dipsacaceae	*Dipsacus asper* Wall. ex DC.	Roots	OA saponins	[928-929]
Dipsacaceae	*Dipsacus japonicus* Miq.	Roots	OA saponins	[930]
Dipsacaceae	*Dipsacus laciniatus* Linn.	Roots	OA	[931]
Dipsacaceae	*Knautia integrifolia* (Linn.) Bertol Var. *Bidens* (Sm.) Barbos.	Roots	OA saponins	[932]
Dipsacaceae	*Morina nepalensis* D. Don.	Whole plant	OA saponins	[933]
Dipsacaceae	*Morina nepalensis* D. Don. var. *alba* (Hand.-Mazz.) Y. C. Tang	Whole plant	OA saponins	[934]
Dipsacaceae	*Pterocephalus bretschneidri* Sylvestris	Roots	OA OA saponins	[935-936]
Dipsacaceae	*Pterocephalus hookeri* (C. B. Clarke) Hoeck	Whole plant	OA OA saponins	[937-939]
Dipsacaceae	*Scabiosa bipinnata* C. Koch.	Roots and aerial parts	OA	[940]
Dipsacaceae	*Scabiosa ochroleuca* Linn.	Flowers and roots	OA	[941]
Dipsacaceae	*Scabiosa soongorica* Roshev.	Underground parts Whole plant	OA OA saponins	[942-944]
Dipsacaceae	*Scabiosa micrantha* Desf. *Scabiosa oliveri* Coult. *Scabiosa ochroleuca* Linn.	Roots	OA	[945]
Dipterocarpaceae Blume	*Dryobalanops aromatica* C. F. Gaertn.	Resins	OA OA acetate	[946-947]
Dipterocarpaceae	*Hopea pubescens* Ridl.	Resins	OA	[948]
Dipterocarpaceae	*Shorea robusta* Roth.	Bark	OA	[949]
Dipterocarpaceae	*Shorea wangtianshuea* Y. K. Yang et J.	Root bark	OA acetate	[950]

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	K. Wu.			
Ebenaceae Gürke	*Diospyros kaki* Thunb.	Leaves, calyx or peel of fruits	OA	[951-955]
Ebenaceae	*Diospyros malanonilau* Linn.	Heartwood	OA	[956]
Ebenaceae	*Diospyros mollis* Griff	Fruit	OA	[957]
Ebenaceae	*Diospyros montana* Roxb.	Fruit pulp	OA	[958-959]
Ebenaceae	Diospyros peregrina (Gaertn.) Gürke	Leaves or barks	OA	[960-961]
Ebenaceae	*Diospyros zombensis* (Burtt) White	Root bark	OA saponins	[962-963]
Ebenaceae	*Euclea crispa* (Thunb.) Gürke	Whole plant	OA	[964]
Ebenaceae	*Diospyros hirsuta* Linn.	Bark and timber	OA	[965]
	D. moonii Thwaites			
	D. quaesita Thwaites			
	D. spinescens (Less.) Cabrera			
	D. thwaitesii Beddome			
	D. walkeri (Wight) Guerke			
Elaeagnaceae Juss.	*Elaeagnus bockii* Diels	Rhizomes	OA	[966]
Elaeagnaceae	*Elaeagnus glabra* Thunb.	Leaves	OA	[967]
Elaeagnaceae	*Elaeagnus pungens* Thunb.	Leaves	OA	[968-970]
Elaeagnaceae	*Hippophae rhamnoides* Linn.	Pericarp of fruits or branch bark	OA	[971-976]
Equisetaceae Michx. ex DC.	*Equisetum arvense* Linn.	Whole plant	OA	[977]
Euphorbiaceae Juss. (*Crotonoideae*)	*Endospermum chinense* Benth.	Barks	OA	[978]
Euphorbiaceae	*Euphorbia esula* Lamarck	Whole plant	OA	[979]
Euphorbiaceae	*Euphorbia geniculata* Ortega	Whole plant	OA saponins	[980]
Euphorbiaceae	*Euphorbia latifolia* C. A. Meyer ex Lebeb.	Whole plant	OA	[981]
Euphorbiaceae	*Euphorbia paralias* Linn.	Whole plant	OA	[982-983]
Euphorbiaceae	*Euphorbia petiolata* Banks ex Soland	Whole plant	OA	[984]
Euphorbiaceae	*Euphorbia portlandica* Linn.	Whole plant	OA	[985]
Euphorbiaceae	*Euphorbia segetalis* Linn.	Whole plant	OA	[986]
Euphorbiaceae	*Euphorbia dracunculoides* Lamk.	Fruit or seeds	OA	[987-988]

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[*Euphorbioideae* (*Euphorbieae*)]				
Euphorbiaceae (*Crotonoideae*)	*Jatropha curcas* Linn.	Whole plant	OA saponins	[989]
Euphorbiaceae [*Acalyphoideae* (*Chrozophoreae*)]	*Melanolepis multiglandulosa* (Reinw. ex Blume) Reich. f. et Zoll.	Roots	OA	[990]
Euphorbiaceae	*Neoboutonia glabrescens* Prain.	Stem bark	OA	[991]
Eupteleaceae K. Wilh.	*Euptelea polyandra* Sieb. et Zucc.	Bark	OA	[992]
Ericaceae Juss.	*Arctostaphylos uva-ursi* (L.) Spreng.	Roots	OA	[993-994]
Ericaceae	*Cassiope selagnoides* H. F. et Thoms.	Whole tree	OA	[995]
Ericaceae	*Epigaea asiatica* Maxim.	Whole plant	OA	[996]
Ericaceae	*Gaultheria yunnanensis* (Franch.) Rehd.	Roots	3-acetyl OA	[997]
Ericaceae	*Leucothoe grayana* Maximowicz	Leaves and stems	OA	[998]
Ericaceae	*Loiseleuria procumbens* (Linn.) Desv. f. var. *Watanabeana* Yanagita	Whole plant	OA saponins	[999]
Ericaceae	*Loiseleuria procumbens* (Linn.) Desvaux	Whole plant	OA saponins	[1000-1001]
Ericaceae	*Lyonia ovalifolia* (Wallich) Drude	Leaves	OA	[1002]
Ericaceae	*Lyonia ovalifolia* (Wallich) Drude var. *elliptica* (Siebold et Zuccarini) Hand.-Mazzetti	Fruit, flowers or red shoots	OA	[1003-1005]
Ericaceae	*Oxycoccus quadripetalus* Gilib.	Whole plant	OA saponins	[1006]
Ericaceae	*Pieris japonica* (Thunb.) D. Don ex G. Don	Bark	OA acetate	[1007-1008]
		Flowers	OA	
Ericaceae	*Pieris taiwanensis* Hayata.	Fruits	OA	[1009]
Ericaceae	*Pirola japonica* Siebold	Leaves	OA	[1010]
Ericaceae	*Rhododendrons* Linn.	Flowers	OA	[1011]
Ericaceae	*Rhododendron anthopogonoide* Maxim.	Stem and leaves	OA	[1012]
Ericaceae	*Rhododendron barbatum* Wallich ex. D. Don.	Stems or roots	OA	[1013-1014]
Ericaceae	*Rhododendron brachycarpum* D. Don.	Leaves	OA	[1015]
Ericaceae	*Rhododendron caucasicum* Pall.	Leaves	OA	[1016-1017]
Ericaceae	*Rhododendron concinnum* Hemsley	Whole plant	OA	[1018]
Ericaceae	*Rhododendron dauricum* Linn.	Whole plant	OA	[1019]
Ericaceae	*Rhododendron linearifolium* Siebold et Zucc. var. *macrosepalum* (Maxim.)	Buds	OA	[1020]

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	Makino			
Ericaceae	*Rhododendron luteum* Sweet.	Leaves	OA	[1021-1023]
Ericaceae	*Rhododendron macrocepalum* DC.	Buds	OA	[1024]
Ericaceae	*Rhododendron metternichii* Sieb. et Zucc.	Whole plant	OA	[1025]
Ericaceae	*Rhododendron adamsii* Rehder.	Shoots or stem bark	OA	[1026-1027]
	Rhododendron aureum Georgi			
	Rhododendron dahuricum Linn. ex Dippel			
	Rhododendron kotschyi Simonk.			
	Rhododendron mucronulatum Turcz.			
	Rhododendron Schlippenbachii Maxim.			
Ericaceae	*Rhododendron camtschaticum* Pall.	Stem bark	OA	[1028]
	Rhododendron fauriei Franch.			
	Rhododendron ledebourii Pojark.			
	Rhododendron parvifolium Adams.			
	Rhododendron ponticum Linn.			
	Rhododendron sichotense Pojark.			
	Rhododendron tschonoskii Maxim.			
	Rhododendron ungernii Trautv.			
Ericaceae	*Vaccinium bracteatum* Thunb.	Flowers	OA	[1029]
Ericaceae	*Vaccinium corymbosum* Linn.	Leaves and callus biomass	OA	[1030]
Ericaceae	*Vaccinium macrocarpon* Ait.	Fruits or pulp	OA	[1031-1032]
Ericaceae	*Vaccinium myrtillus* Linn.	Whole plant	OA	[1033]
Ericaceae	*Vaccinium uliginosum* Linn.	Fresh leaves	OA	[1034]

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Ericaceae	*Zenobia pulverulenta* (Bartram ex Willd.) Pollard.	Whole plant	OA	[1035]
Fabaceae Lindl.	*Abrus cantoniensis* Hance	Whole plant	OA saponins	[1036]
Fabaceae	*Abrus mollis* Hance	Whole plant	OA	[1037]
Fabaceae	*Abrus precatorius* L.	Seeds	OA saponins	[1038]
Fabaceae	*Acacia nilotica* L.	Pods and stems	OA saponins	[1039]
Fabaceae	*Acacia pulchella* R. Br.	Roots	OA saponins	[1040]
Fabaceae	*Acacia victoriae* Benth.	Whole plant	OA	[1041]
Fabaceae	*Adenanthera pavonina* L.	Roots	OA	[1042-1043]
		Bark	OA saponins	
Fabaceae	*Albizzia lebbek* (L.) Benth.	Seeds or pericarps	OA OA saponins	[1044-1047]
Fabaceae	*Albizzia lucida* (L.)Benth.	Seeds	OA	[1048]
Fabaceae	*Albizzia procera* (L.)Benth.	Seeds	OA saponins	[1049-1050]
		Roots and leaves	OA	
Fabaceae	*Albizia gummifera* (J. F. Gmelin) C. A. Smith.	Stem bark	OA saponins	[1051]
Fabaceae	*Astragalus bungeanus* Boiss.	Leaves and stems	OA saponins	[1052]
Fabaceae	*Astragalus unifoliolatus* Bunge.	Whole plant	OA	[1053]
Fabaceae (*Caesalpinioideae*)	*Bauhinia purpurea* Linn.	Bark	OA	[1054-1055]
Fabaceae (*Caesalpinioideae*)	*Caesalpinia decapetala* (Roth) Alston.	Whole plant	OA	[1056]
Fabaceae (*Caesalpinioideae*)	*Caesalpinia paraguariensis* Burk	Whole plant	OA saponins	[1057]
Fabaceae	*Campylotropis hirtella* (Franch.) Schindl.	Roots	OA	[1058]
Fabaceae	*Caragana sinica* (Buc'hoz) Rehd.	Roots	OA OA saponins	[1059-1060]
Fabaceae *(Caesalpiniaceae)*	*Cassia laevigata* Willd.	Flowers	OA saponins	[1061]
Fabaceae (*Caesalpiniaceae*)	*Cassia siamea* Lamk.	Flowers and bark	OA	[1062]
Fabaceae (*Faboideae*)	*Dalbergia latifolia* Roxb.	Bark and sapwood	Acetyl-OA	[1063]
Fabaceae (*Faboideae*)	*Dalbergia malabarica* Prain.	Roots	OA	[1064]

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Fabaceae (*Faboideae*)	*Dalbergia rubiginosa* Roxb.	Roots	OA	[1065]
Fabaceae (*Faboideae*)	*Dalbergia sissoides* Graham ex. Wight et Arn.	Leaves	OA	[1066]
Fabaceae (*Faboideae*)	*Dalbergia variabilis* Vogel.	Bark and wood	3-O-acetyl-OA	[1067]
Fabaceae	*Derris trifoliate* Lour.	Leaves	OA	[1068]
Fabaceae	*Dialium guineense* Willd.	Fruit and leaves	OA saponins	[1069-1070]
Fabaceae (*Faboideae*)	*Dioclea lasiophylla* Mart. ex Benth.	Stems	OA OA saponins	[1071]
Fabaceae (*Faboideae*)	*Dolichos lablab* Linn.	Seeds	OA saponins	[1072]
Fabaceae	*Echinosophora koreensis* Nakai	Stems	OA	[1073]
Fabaceae (*Mimosoideae*)	*Entada phaseoloides* (Linn.) Merr.	Bark	OA Saponins	[1074]
Fabaceae (*Mimosoideae*)	*Entada scandens* (Linn.) Benth.	Whole plant	OA	[1075]
Fabaceae (*Faboideae*)	*Erythrina arborescens* Roxb.	Heartwood	OA	[1076]
Fabaceae (*Faboideae*)	*Erythrina crista-galli* Linn.	Stems or leaves	OA	[1077-1078]
Fabaceae (*Faboideae*)	*Erythrina eriotricha* Harms	Stem and root bark	3β-O-(E)-iso feruloyl OA	[1079]
Fabaceae (*Faboideae*)	*Erythrina indica* Lam.	Sttem bark	OA	[1080]
Fabaceae (*Faboideae*)	*Erythrina sensegalensis* Wandji	Stem bark	OA	[1081]
Fabaceae (*Faboideae*)	*Erythrina sigmoidea* Hua	Stems	OA	[1082-1083]
Fabaceae (*Faboideae*)	*Erythrina variegate* Linn.	Stem bark	OA	[1084-1085]
Fabaceae	*Eysenhardtia platycarpa* Pennell et Safford	Branches and leaves	OA 3-O-acetyl -OA	[1086]
Fabaceae	*Fabaceae* Lindl.	Whole plant	OA	[1087]
Fabaceae (*Caesalpinioideae*)	*Gleditsia sinensis* Lam.	Fruits	OA OA saponins	[1088-1092]
Fabaceae	*Gleditschia officinalis*	Pods	OA saponins	[1093]

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(*Caesalpiniaceae*)				
Fabaceae (*Caesalpiniaceae*)	*Gleditschia triacanthos* Linn.	Pods or fruits and leaves	OA OA saponins	[1094-1096]
Fabaceae (*Faboideae*)	*Glycyrrhiza yunnanensis* Cheng f. et L. K. Dai ex P. C. Li	Roots	OA	[1097]
Fabaceae	*Heylandia latebrosa* (Linn.) DC.	Leaves	OA saponins	[1098-1099]
Fabaceae	*Lonchocarpus cyanescens* (Schumacher. et Thonn.) Benth.	Roots	OA	[1100]
Fabaceae (*Faboideae*)	*Lotus corniculatus* Linn.	Whole plant	OA	[1101]
Fabaceae	*Lotus garcinii* DC.	Whole plant	OA	[1102-1104]
Fabaceae [*Faboideae* (*Trifolieae*)]	*Medicago sativa* Linn.	Root	OA saponins	[1105]
Fabaceae (*Faboideae*)	*Medicago hybrida* (Pourret) Trautv.	Roots	OA OA saponins	[1106]
Fabaceae	*Milletia laurentii* De Wild.	Whole plant	OA saponins	[1107]
Fabaceae	*Millettia pachycarpa* Benth.	Roots	OA	[1108]
Fabaceae (*Mimosoideae*)	*Mimosa tenuiflora* (Willd.) Poir.	Bark	OA saponins	[1109]
Fabaceae (*Caesalpinioideae*)	*Mora gonggrijpii* (Kleinhoonte) Sandw.	Wood	OA	[1110]
Fabaceae [*Faboideae* (*Sophoreae*)]	*Myroxylon balsamum* (Linn.) Harms.	Whole plant	OA	[1111-1112]
Fabaceae (*Mimosoideae*)	*Parkia speciosa* hort. ex Hassk.	Whole plant	OA	[1113]
Fabaceae [*Mimosoideae* (*Mimoseae*)]	*Prosopis* Linn.	Seeds	OA	[1114]
Fabaceae [*Mimosoideae* (*Mimosaceae*)]	*Pentaclethra eetveldeana* De Wild. et Th. Durand.	Seeds	OA	[1115]
Fabaceae (*Caesalpinioideae*)	*Perocarpus santalinus* Linn.	Heartwood	OA	[1116]
Fabaceae [*Faboideae* (*Phaseoleae*)	*Phaseolus angularis* (Willd.) W. F. Wight.	Mature seeds	OA	[1117]

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Fabaceae [*Mimosoideae* (*Mimoseae*)]	*Piptadeniastrum africanum* (Hook. f.) Brenan	Bark	OA	[1118]
Fabaceae [*Papilionoidea* (*Vicieae*)]	*Pisum sativum* Linn.	Stems	OA saponins	[1119]
Fabaceae (*Minosoideae*)	*Pithecellobium arboreum* (L.) Urban.	Whole plant	OA saponins	[1120]
Fabaceae (*Minosoideae*)	*Pithecellobium cubense* Bisse.	Whole plant	OA saponins	[1121]
Fabaceae (*Minosoideae*)	*Pithecellobium dulce* (Roxb.) Benth.	Seeds	OA saponins	[1122-1124]
Fabaceae (*Minosoideae*)	*Pithecellobium jiringa* (W. Jack) Prain ex King	Whole plant	OA	[1125]
Fabaceae (*Minosoideae*)	*Pithecellobium racemosum* Ducke	Bark	OA saponins	[1126]
Fabaceae [*Mimosoideae* (*Mimoseae*)]	*Prosopis glandulosa* Torrey.	Stems or flowers	OA	[1127-1128]
Fabaceae	*Psorothamnus arborescens* (Torr. ex A. Gray) Barneby	Roots	OA	[1129]
Fabaceae [*Faboideae* (*Dalbergieae*)]	*Pterocarpus marsupium* Roxb.	Heartwood	OA	[1130]
Fabaceae [*Faboideae* (*Dalbergieae*)]	*Pterocarpus dalbergioides* Benth. *Pterocarpus macrocarpus* Kurz. *Pterocarpus soyauxii* Taubert *Pterocarpus tinctorius* (Baker) Welw.	Heartwood	OA	[1131]
Fabaceae	*Pueraria lobata* (Willd.) Ohwi.	Roots or flowers	OA saponins	[1132-1133]
Fabaceae	*Pueraria peduncularis* (Grah. ex Benth.) Benth.	Whole plant	OA OA saponins	[1134]
Fabaceae (*Mimosoideae*)	*Samenea saman* (Jacq.) Merr.	Whole plant	OA saponins	[1135]
Fabaceae [*Faboideae*	*Sesbania aculeata* (Linn.) Per.	Seeds	OA	[1136]

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(*Robinieae*)]				
Fabaceae [*Faboideae* (*Robinieae*)]	*Sesbania aegyptica* (Poir.) Pers.	Whole plant	OA	[1137-1138]
Fabaceae [*Faboideae* (*Robinieae*)]	*Sesbania drummondii* (Rydb.) Cory.	Seed	OA	[1139]
Fabaceae [*Faboideae* (*Robinieae*)]	*Sesbania grandiflora* (L.) Poiret	Seeds	OA saponins	[1140-1141]
		Leaves	OA	
Fabaceae [*Faboideae* (*Robinieae*)]	*Sesbania punicea* (Cav.) Benth.	Seed	OA	[1142]
Fabaceae [*Faboideae* (*Robinieae*)]	*Sesbania sesban* (Linn.) Merrill.	Roots	OA	[1143-1144]
		Aerial parts	OA saponins	
Fabaceae [*Faboideae* (*Robinieae*)]	*Sesbania speciosa* Taub.	Seeds	OA	[1145]
Fabaceae [*Faboideae* (*Robinieae*)]	*Sesbania vesicaria* (Jacq.) Ell.	Seed	OA	[1146]
Fabaceae	*Swartzia madagascariensis* Desvaux.	Seeds or fruits	OA saponins	[1147-1148]
Fabaceae [*Faboideae* (*Swartzieae*)]	*Swartzia schomburgkii* Benth.	Whole plant	OA saponins	[1149]
Fabaceae	*Swartzia simplex* (Sw.) Spreng.	Leaves	OA saponins	[1150]
Fabaceae	*Taverniera aegyptiaca* Boiss.	Root and stem barks	OA saponins	[1151-1152]
		Fruits	OA	
Fabaceae [*Faboideae* (*Millettieae*)]	*Tephrosia strigosa* (Dalzell) Santapau et Maheshw.	Whole plant	OA	[1153-1154]
Fabaceae	*Tetrapleura tetraptera* (Schum. & Thonn.)Taubert.	Fruit or stem bark	OA saponins	[1155-1158]
Fabaceae [*Faboideae* (*Phaseoleae*)]	*Vigna mungo* (Linn.) Hepper.	Roots	OA saponins	[1159]

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Fabaceae [*Faboideae* (*Phaseoleae*)]	*Vigna unguiculata* (Linn.) Walp.	Seeds	3-O-acetyl OA	[1160]
Fagaceae Dumortier	*Lithocarpus* Blume	Whole plant	OA	[1161]
Fagaceae	*Lithocarpus attenuate* (Skan) Rehd.	Stems	OA	[1162]
Fagaceae	*Lithocarpus polystachya* (Wall.) Rehd.	Stems	OA	[1163]
Fagaceae	*Quercus pachyphylla* Kurz.	Whole plant	OA	[1164]
Fagaceae	*Quercus semicarpifolia* Smith.	Leaves	OA	[1165]
Frankeniaceae Desv.	*Frankenia trianda*	Whole plant	OA	[1166]
Fumariaceae Bercht. et J. Presl.	*Corydalis saxicola* Bunting	Whole plant	OA	[1167]
Gentianaceae Juss.	*Centaurium cachanlahuen* (Moll.) Robinson.	secondary metabolite	OA	[1168]
Gentianaceae	*Centaurium erythraea* Rafn.	Whole plant	OA	[1169]
Gentianaceae	*Centaurium pulchellum* (Swartz) Druce	Whole plant	OA	[1170]
Gentianaceae	*Centaurium umbellatum* Gilibert	Whole plant	OA	[1171]
Gentianaceae	*Frasera tetrapetala* Poll.	Whole plant	OA	[1172]
Gentianaceae	*Gentiana algida* Pallas	Whole plant	OA	[1173]
Gentianaceae	*Gentiana apiata* N. E. Br.	Whole plant	OA	[1174]
Gentianaceae	*Gentiana ariasnensis* Hayata	Whole plant	OA	[1175]
Gentianaceae	*Gentiana barbata* (Froel.) Ma.	Whole plant	OA	[1176]
Gentianaceae	*Gentiana lutea* Linn.	Whole plant	OA	[1177]
Gentianaceae	*Gentiana macrophylla* Pall.	Roots	OA	[1178-1181]
Gentianaceae	*Gentiana manshurica* Kitag.	Aerial parts	OA	[1182]
Gentianaceae	*Gentiana olivieri* Griseb.	Flowers	OA	[1183]
Gentianaceae	*Gentiana schistocalyx* K. Koch.	Aerial parts	OA	[1184]
Gentianaceae	*Gentiana siphonantha* Maximowicz ex Kusnezow	Rhizomes and roots	OA	[1185]
Gentianaceae	*Gentiana sutchenensi*s Franch. ex. Hemsl.	Whole plant	OA	[1186]
Gentianaceae	*Gentiana tibetica* King ex. J. D. Hooker.	Roots	OA	[1187]
Gentianaceae	*Gentianella achalensis* (Gilg.) T. N. Ho et S. W. Liu	Flowering aerial parts	OA	[1188]
Gentianaceae	*Gentianella florida* (Griseb.) Holub.	Whole plant	OA	[1189]
Gentianaceae	*Gentianella thysoidea* Hooker Fabris	Root, stem, flowers	OA	[1190]
Gentianaceae	*Gentianopsis barbata* (Froel) Ma.	Whole Plant	OA	[1191-1192]

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	Gentianopsis barbata var. *stennocalyx* H. W. Li ex T. N. Ho			
Gentianaceae	*Gentianopsis paludosa* (Hook. f.) Ma	Whole plant	OA	[1193-1195]
Gentianaceae	*Halenia elliptica* D. Don.	Whole plant	OA	[1196-1197]
Gentianaceae	*Orphium frutescens* (Linn.) E. Meyer.	Leaves and stems	OA	[1198]
Gentianaceae	*Swertia* Linn.	Whole plant	OA	[1199]
Gentianaceae	*Swertia alata* (Royale ex D. Don) C.B. Clarke	Roots and aerial parts	OA	[1200]
Gentianaceae	*Swertia chirata* Buch-Ham	Aerial parts	OA	[1201-1204]
Gentianaceae	*Swertia chirayita* (Roxb. ex Fleming) Karsten	Whole plant	OA	[1205]
Gentianaceae	*Swertia ciliata* (D. Don ex G. Don) B. L. Burtt.	Whole plant	OA	[1206]
Gentianaceae	*Swertia cincta* Burkill.	Whole plant	OA	[1207-1208]
Gentianaceae	*Swertia davidi* Franch.	Whole plant	OA	[1209-1211]
Gentianaceae	*Swertia decussata* Nimmo.	Flowers	OA	[1212]
Gentianaceae	*Swertia delavayi* Franch.	Whole plant	OA	[1213]
Gentianaceae	*Swertia franchetiana* H. Smith.	Whole plant	OA	[1214-1215]
Gentianaceae	*Swertia japonica* (Roem. & Schult.) Mak.	Whole plant	OA	[1216-1221]
Gentianaceae	*Swertia mileensis* T. N. Ho et W. L. Shi	Whole plant	OA	[1222]
Gentianaceae	*Swetia mussotii* Franch.	Whole plant	OA	[1223]
Gentianaceae	*Swertia nervosa* (G.Don) C.B. Clarke.	Whole plant	OA	[1224-1225]
Gentianaceae	*Swertia patens* Burkill.	Whole plant	OA	[1226]
Gentianaceae	*Swertia przewalskii* Pissjauk.	Whole plant	OA	[1227]
Gentianaceae	*Swertia pubescens* Franch.	Plant	OA	[1228]
Gentianaceae	*Swertia punicea* Hemsl.	Whole plant	OA	[1229-1232]
Gentianaceae	*Swertia purpurascens* (D. Don) A. Wall ex E. D. Clarke	Whole plant	OA	[1233]
Gentianaceae	*Swertia randaiensis* Hayata.	Whole plant	OA	[1234]
Gentianaceae	*Swertia tetraptera* Maxim.	Whole plant	OA	[1235]
Gentianaceae	*Swertia tosaensis* Makino.	Whole plant	OA	[1236]
Gentianaceae	*Swertia dilatata* C.B. Clarke.	Whole plant	OA	[1237]
	Swertia gracilescens Harry Smith			
	Swertia racemosa (Griseb.) Wall. ex C.			

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	B. Clarke			
Gentianaceae	*Swertia bimaculata* (Siebold & Zucc.) C. B. Clarke *Sweria hickinii* Franch. *Swertia kouitchensis* Franch. *Swertia macrosperma* (C. B. Clarke) C. B. Clarke *Swertia punicea* Hemsl.	Whole plant	OA	[1238]
Gentianaceae	*Tachiadenus longiflorus* Grisebach	Leaves and stems	OA	[1239-1241]
Gentianaceae	*Tripterospermum lanceolatum* (Hayata) Hara ex Satake	Aerial parts	OA	[1242-1243]
Gentianaceae	*Tripterospermum taiwanense* (Masam.) Satake	Whole plant	OA	[1244]
Gentianaceae	*Tripterospermum taiwanense* (Masam.) Satake var. *alpinum* Satake	Fresh whole plant	OA	[1245]
Gesneriaceae Rich. et Juss.	*Kohleria deppeana* (Schlecht. et Cham.) Fritsch	Whole plant	OA	[1246]
Griseliniaceae J. R. Forst. et G. Forst. ex A. Cunn.	*Griselinia scandens* (Ruíz & Pavon) Taubert.	Leaves	OA	[1247]
Gunneraceae Meisn.	*Gunnera masafuerae* Skottsberg *G. magellanica* Lam. *G. peltata* Phil. *G. tinctoria* (Molina) Mirbel.	Secondary metabolites	OA	[1248]
Hamamelidaceae R. Br.	*Semiliquidambar cathayensis* H. T. Chang.	Rhizomes	OA	[1249]
Hamamelidaceae	*Sycopsis tutcherii* Hemsl.	Bark	OA	[1250-1251]
Hydrangeaceae Dumort.	*Philadelphus coronarius* Linn.	Twigs	OA	[1252]
Iridaceae Juss.	*Crocus sativus* Linn.	Bulbs	OA OA saponins	[1253-1254]

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Irvingiaceae Exell et Mendonca	*Irvingia malayana* Oliver ex Bennett	Wood	OA	[1255]
Juglandaceae DC. ex Perleb	*Cyclocarya paliurus* (Batal.) Iljinsk.	Leaves	OA	[1256-1257]
Juglandaceae DC. ex Perleb.	*Engelhardia roxburghiana* Wall.	Roots	OA	[1258]
Lamiaceae Martinov.	*Amaracus akhdarensis* (letswaart & Boulos) Brullo & F. Furnari	Aerial parts	OA	[1259]
Lamiaceae	*Amaracus dictamnus* (L.) Benth.	Aerial parts	OA	[1260]
Lamiaceae	*Amaracus pampanini* Li.	Aerial parts	OA	[1261]
Lamiaceae	*Agastache rugosa* (Fisch.et Mey.) O. Küntze	Roots	OA	[1262]
Lamiaceae	*Ballota limbata* Linn.	Whole plant	OA	[1263]
Lamiaceae	*Ballota undulate* (Sieb. ex Fres.) Benth.	Whole plant	OA	[1264]
Lamiaceae	*Bystropogon canariensis* L'Hérit	Leaves and stems	OA	[1265]
Lamiaceae	*Clerodendranthus spicatus* (Thunb.) C. Y. Wu	Aerial parts	OA	[1266]
Lamiaceae	*Clinopodium gracile* (Benth.) O. Kuntze	Whole plant	OA	[1267]
Lamiaceae	*Clinopodium umbrosum* (Bieb.) C. Koch.	Whole plant	OA	[1268]
Lamiaceae	*Clinopodium vulgare* Linn.	Whole plant	OA	[1269]
Lamiaceae	*Clinoponium laxiflorum* (Hay) Matsum	Whole plant	OA	[1270]
Lamiaceae	*Coleus amboinicus* Lour.	Leaves	OA	[1271]
Lamiaceae	*Coleus carnosifolius* (Hemsl.) Dunn.	Whole plant	OA	[1272]
Lamiaceae	*Coleus esquirolii* (Lévl.) Dunn.	Stems and leaves	OA	[1273]
Lamiaceae	*Coleus xanthanthus* CY Wu et YC Huang	Flowers	OA	[1274]
Lamiaceae	Cunila lythrifolia *Benth.*	Aerial parts	OA	[1275]
Lamiaceae	*Cyclotrichium niveum* (Boiss.) Manden. &. Scheng.	Whole plant	OA	[1276]
Lamiaceae	*Dracocephalum kotschyi* Boiss.	Whole plant	OA	[1277]
Lamiaceae	*Dracocephalum moldavica* Linn.	Whole plant	OA	[1278]
Lamiaceae	*Dracocephalum multicolor* Kom.	Whole plant	OA	[1279]
Lamiaceae	*Dracocephalum subcapitatum* (O. Kuntze) Lipsky.	Whole plant	OA	[1280]
Lamiaceae	*Dracocephalum tanguticum* Maxim.	Whole plant	OA	[1281-1282]
Lamiaceae	*Elsholtzia Bodinieri* Vaniot	Whole plant	OA	[1293-1284]
Lamiaceae	*Eriope blanchetii* (Benth) Harley	Aerial parts	OA	[1285-1286]
Lamiaceae	*Glechoma hederacea* (L.) Trevir.	Whole plant	OA	[1287-1288]

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Lamiaceae	*Glechoma hederacea* Linn.	Whole plant	OA	[1289]
Lamiaceae	*Glechoma longituba* (Nakai) Kupr.	Whole plant	OA	[1290]
Lamiaceae	*Hyptis albida* Kunth.	Whole plant	OA	[1291]
Lamiaceae	*Hyptis capitata* Jacq.	Aerial parts	OA	[1292-1293]
Lamiaceae	*Hyptis mutabilis* (L. C. Richard) Briquet	Whole plant	OA	[1294]
Lamiaceae	*Hyptis suaveolens* (Linn.) Poit.	Roots	OA	[1295]
Lamiaceae	*Hyptis verticillata* Jacq.	Whole plant	OA	[1296]
Lamiaceae	*Hyssopus ferganensis* Boriss.	Whole plant	OA	[1297]
Lamiaceae	*Hyssopus officinalis* Linn.	callus	OA	[1298]
Lamiaceae	*Hyssopus seravshanicus* Linn.	Whole plant	OA	[1299]
Lamiaceae	*Isodon glaucocalyx* (Maxim.) Kudô	Whole plant	OA	[1300]
Lamiaceae	*Isodon loxothyrsus* (Hand.-Mazz.)	Aerial parts	OA	[1301]
Lamiaceae	*Isodon nervosus* (Hemsl.) Kudô.	Stems and leaves	OA	[1302-1303]
Lamiaceae	*Isodon oresbius* (W. W. Smith) Kudô	Whole plant	OA	[1304-1305]
Lamiaceae	*Isodon Phyllostachys* (Diels) Kudô	Aerial parts	OA	[1306]
Lamiaceae	*Isodon ternifolius* (D. Don) Kudô	Stems and leaves	OA	[1307]
Lamiaceae	*Isodon trichocarpus* (Maxim.) Kudô	Stems	OA	[1308]
Lamiaceae	*Isodon xerophilus* (C. Y. Wu et H. W. Li) H. Hara	Leaves	OA	[1309]
Lamiaceae	*Lagopsis supine* (Steph.) Ik. –GaI	Whole plant	OA	[1310]
Lamiaceae	*Lamium album* Linn.	Flowers	OA	[1311]
Lamiaceae	*Lavandula canariensis* (Linn.) Mill.	Nonvolatile part	OA	[1312]
Lamiaceae	*Lavandula coronipifolia* Poir.	Whole plant	OA	[1313]
Lamiaceae	*Lavandula multifida* Linn.	Aerial parts	OA	[1314]
Lamiaceae	*Lavandula stoechas* Linn.	Aerial parts	OA	[1315]
Lamiaceae	*Lavandula vera* DC.	Whole plant	OA	[1316]
Lamiaceae	*Leucas aspera* (Willd.) Spreng.	Whole plant	OA	[1317]
Lamiaceae	*Leucas cephalotes* (Roxb.) Spreng	Whole plant	OA	[1318]
Lamiaceae	*Leucas mollissima* Wall. ex Benth.	Whole plant	OA-3-acetate	[1319]
Lamiaceae	*Lycopus lucidus* Turcz.	Leaves	OA	[1320-1322]
Lamiaceae	*Marsypianthes chamae-drys* (Vahl.) Kuntze.	Stems and aerial parts	OA	[1323]
Lamiaceae	*Melissa officinalis* Linn.	Leaves	OA	[1324]
Lamiaceae	*Mentha arvensis* Linn. var *piperascens* Malinv. ex Holmes.	Callus tissue	OA	[1325]
Lamiaceae	*Mentha aquatica* var. *citrata* (J. F. Ehrh.) Benth.	Fitoterapia	OA	[1326]

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Lamiaceae	*Mentha Haplocalyx* Briq.	Leaves	OA	[1327-1328]
Lamiaceae	*Mentha longifolia* (Linn.) Hudson.	Aerial parts	OA	[1329-1330]
Lamiaceae	*Mentha spicata* (Linn.) Crantz	Leaves and stems	OA	[1331]
Lamiaceae	*Mesona chinensis* Benth.	Whole plant	OA	[1332]
Lamiaceae	*Mesona procumbens* Hemsl.	Whole plant	OA	[1333]
Lamiaceae	*Micromeria* Benth.	Foliage	OA	[1334]
Lamiaceae	*Micromeria benthami* Webb. et Berthel.	Aerial parts	OA	[1335-1336]
Lamiaceae	*Micromeria biflora* Benth.	Whole plant	OA	[1337]
Lamiaceae	*Micromeria thymifolia* (Scop.) Fritsch.	Aerial parts	OA	[1338]
Lamiaceae	*Mosla dianthera* Maxim.	Whole plant	OA	[1339]
Lamiaceae	*Nepeta hindostana* (Roth) Haines.	Whole plant	OA	[1340]
Lamiaceae	*Nepeta leucophylla* Benth.	Aerial parts	OA	[1341]
Lamiaceae	*Nepeta nuda* Linn. ssp. *albiflora* (Boiss.) Gams	Whole plant	OA	[1342]
Lamiaceae	*Ocimum basilicam* Linn	Whole plant	OA	[1343]
Lamiaceae	*Ocimum basilicum* Linn.	Aerial parts	OA	[1344]
Lamiaceae	*Ocimum canum* Sim.	Leaves and flowers	OA	[1345]
Lamiaceae	*Ocimum gratissimum* Linn	Leaves	OA	[1346-1347]
Lamiaceae	*Ocimum kilimandscharicum* Baker ex Gürke A	Flowers	OA	[1348]
Lamiaceae	*Ocimum sanctum* Linn	Leaves	OA	[1349]
Lamiaceae	*Ocimum spicatum* Deflers	Whole plant	OA	[1350]
Lamiaceae	*Ocimum suave* Willd.	Essential oil	OA	[1351]
Lamiaceae	*Origanum compactum* Bentham.	Aerial parts	OA	[1352]
Lamiaceae	*Origanum dictamnus* Linn.	Whole plant	OA	[1353]
Lamiaceae	*Origanum tyttanthum* Gontsch.	Oil	OA	[1354]
Lamiaceae	*Origanum vulgare* Linn.	Whole plant	OA	[1355]
Lamiaceae	*Orthosiphon stamineus* Benth.	Leaves	OA	[1356-1358]
Lamiaceae	*Orthosiphon wulfenioides* (Diels) Hand.-Mazz.	Roots	OA	[1359]
Lamiaceae	*Otostegia fruticosa* (Forssk.) Schweint. ex Penzing.	Whole plant	OA	[1360]
Lamiaceae	*Otostegia limbata* Benth. ex Hook. f.	Roots	OA	[1361]
Lamiaceae	*Perilla frutescens* (Linn.) Britt.	Leaves	OA	[1362-1363]
Lamiaceae	*Perilla frutescens* (Linn.) Britton var. *japonica* (Hassk.) H. Hara.	Leaves	OA	[1364]
Lamiaceae	*Perovskia atriplicifolia* Benth.	Whole plant	OA	[1365]

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Lamiaceae	*Phlomis umbrosa* Turcz.	Whole plant	OA	[1366]
Lamiaceae	*Plectranthus rugosus* Wall. ex Benth.	Whole plant	OA	[1367]
Lamiaceae	*Pogostemon cablin* (Blanco) Benth.	Whole plant	OA	[1369]
Lamiaceae	*Prunella grandiflora* (Linn.) Scholler et Jacq.	Whole plant	OA	[1370]
Lamiaceae	*Prunella vulgaris* Linn.	Spikes or fruits	OA OA saponins	[1371-1376]
Lamiaceae	*Prunella Asiatic* Soc. Bengal *Prunella hispida* Benth.	Whole plant	OA	[1377]
Lamiaceae	*Rabdosia adenoloma* (Hand. – Mazz.) Hara.	Aerial parts	OA OA saponins	[1378]
Lamiaceae	*Rabdosia amethystoides* (Benth.) Hara.	Leaves	OA	[1379]
Lamiaceae	*Rabdosia coetsa* (Buch.-Ham. ex D. Don) Hara.	Leaves	OA	[1380]
Lamiaceae	*Rabdosia excisa* (Maxim.) Hara.	Aerial parts	OA	[1381]
Lamiaceae	*Rabdosia henryi* (Hemsl.) Hara.	Leaves	OA	[1382]
Lamiaceae	*Rabdosia inflexus* (Thunb.) Kudo.	Leaves	OA	[1383-1384]
Lamiaceae	*Rabdosia japonica* (Burm. f.) Haravar	Aerial parts or roots	OA	[1385-1386]
Lamiaceae	*Rabdosia japonica* (Burm. f.). Hara var. *glaucocalyx* (Maxim.) Hara.	Stem leaves or roots	OA	[1387-1389]
Lamiaceae	*Rabdosia lophanthoides* (Buch.-Ham. ex D. Don) Hara.	leaves	OA	[1368, 1390-1391, 1397]
Lamiaceae	*Rabdosia rubescens* (Hemsl.) Hara.	Stem leaves	OA	[1392-1394]
Lamiaceae	*Rabdosia ternifolia* (D. Don.) Hara.	Leaves	OA	[1395-1396]
Lamiaceae	*Raphiodon echinus* (Mart. et Nees) Schauer.	Whole plant	OA	[1398]
Lamiaceae	*Rosmarinus officinalis* Linn.	Stems or leaves	OA	[1399-1405]
Lamiaceae	*Roylea elegans* Wall.	Roots	OA	[1406]
Lamiaceae	*Salvia aegyptiaca* Linn.	Whole plant	OA	[1407-1408]
Lamiaceae	*Salvia aethiopis* Linn.	Aerial parts Roots	OA	[1409]
Lamiaceae	*Salvia amplexicaulis* Lam.	Roots or plant	OA	[1410-1412]
Lamiaceae	*Salvia anastomosans* Ramamoorthy	Aerial parts	OA	[1413]
Lamiaceae	*Salvia apiana* Jepson.	Leaves	OA	[1414]
Lamiaceae	*Salvia argentea* Linn.	Aerial parts	OA	[1415]
Lamiaceae	*Salvia bellotaeflora* Linn.	Whole plant	OA	[1416]

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Lamiaceae	*Salvia breviflora* Moc. & Sessé, ex Benth.	Whole plant	OA	[1417]
Lamiaceae	*Salvia canariensis* Linn.	Aerial part	OA	[1418]
Lamiaceae	*Salvia calycina* Sibth. et Sm.	Whole plant	OA	[1419-1420]
Lamiaceae	*Salvia candelabrum* Boiss. (Ex. J.B. de Dijon).	Aerial parts	OA	[1421]
Lamiaceae	*Salvia cardiophylla* Benth.	Whole plant	OA	[1422]
Lamiaceae	*Salvia cilicica* Boiss. et Kotschy	Roots	OA	[1423]
Lamiaceae	*Salvia deserta* Schang	Flowers or leaves	OA	[1424-1425]
Lamiaceae	*Salvia deserta* Schang	Roots	3-acetyl OA	[1426]
Lamiaceae	*Salvia divaricata* Montbr. et Auch.	Whole plant	OA	[1427]
Lamiaceae	*Salvia euphratica* Montbret et Aucher ex Benth.	Whole plant	OA	[1428]
Lamiaceae	*Salvia gilliessi* Benth.	Aerial parts	OA	[1429]
Lamiaceae	*Salvia glabrescens* Makino	Whole plant	OA	[1430]
Lamiaceae	*Salvia hierosolymitana* Boiss.	Whole plant	OA	[1431]
Lamiaceae	*Salvia horminum* Linn.	Upper plant tissues	OA	[1432-1433]
Lamiaceae	*Salvia hydrangea* DC. ex Benth.	Roots	OA	[1434]
Lamiaceae	*Salvia japonica* Thunb.	Whole plant	OA	[1435]
Lamiaceae	*Salvia lanigera* Poir.	Whole plant	OA	[1436]
Lamiaceae	*Salvia lavanduloides* Kunth.	Aerial parts	OA	[1437]
Lamiaceae	*Salvia lineate* Benth.	Aerial parts	OA	[1438]
Lamiaceae	*Salvia longipedicellata* Hedge	Whole plant	OA	[1439]
Lamiaceae	*Salvia longystyla* Benth.	Whole plant	OA	[1440]
Lamiaceae	*Salvia mellifera* E. Greene	Aerial parts	OA	[1441]
Lamiaceae	*Salvia melissodora* D. R. Conabio.	Aerial parts	OA	[1442]
Lamiaceae	*Salvia microphylla* Kunth.	Whole plant	OA	[1443]
Lamiaceae	*Salvia moorcraftiana* Wall.	Aerial parts	OA	[1444]
Lamiaceae	*Salvia moorcroftiana* Wall. ex Benth.	Aerial parts	OA	[1445]
Lamiaceae	*Salvia nicolsoniana* Ram.	Aerial parts	OA	[1446-1447]
Lamiaceae	*Salvia nemorosa* Lubeca	Shoot	OA	[1448]
Lamiaceae	*Salvia officinalis* Linn.	Leaves	OA	[1449-1459]
Lamiaceae	*Salvia palaefolia* H. B. Kunth.	Aerial parts	OA	[1460-1461]
Lamiaceae	*Salvia pinnata* Linn.	Leaves	OA	[1462]
Lamiaceae	*Salvia pomifera* Linn.	Whole plant	OA	[1463]
Lamiaceae	*Salvia przewalskii* Maxim.	Roots	OA	[1465-1466]
Lamiaceae	*Salvia recognita* Fisch. et C. A. Meyer.	Aerial parts	OA	[1467]

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		Roots		
Lamiaceae	*Salvia regal* Cav.	Aerial parts	OA	[1468-1469]
Lamiaceae	*Salvia reptans* Jacq.	Whole plant	OA	[1470]
Lamiaceae	*Salvia roborowskii* Maxim.	Whole plant	OA	[1471]
Lamiaceae	*Salvia sapinae* Epling Stachys	Aerial parts	OA	[1472]
Lamiaceae	*Salvia sclarea* Linn.	Roots	OA	[1473-1474]
Lamiaceae	*Salvia sclareoides* Brot.	Roots	OA	1475-1476]
Lamiaceae	*Salvia sousae* Ram.	Aerial parts	OA	[1477]
Lamiaceae	*Salvia tomentosa* Miller	Leaves	OA	[1478-1479]
Lamiaceae	*Salvia triloba* L. S. fruticosa Miller.	Leaves	OA	[1480-1485]
Lamiaceae	*Salvia uruapana* Fernald.	Aerial parts	OA	[1486]
Lamiaceae	*Salvia verticillata* Linn.	Roots	OA Acetyl OA	[1487-1488]
Lamiaceae	*Salvia grandiflora* Etling *Salvia menthaefolia* Ten. *Salvia splendens* Ker-Gawl *Salvia lavandulifolia* Vahl.	Whole plant	OA	[1489]
Lamiaceae	*Salvia cryptantha* Montbret et Aucher ex Bentham *Salvia pisidica* Boiss. & Heldr. ex Benth. *Salvia virgata* Jacq. *Salvia potentillifolia* Boiss. & Heldr. ex Benth.	Roots	OA	[1490]
Lamiaceae	*Salvia ringens* Sibth. & Sm. *Salvia scabiosifia* Linn.	Leaves	OA	[1491]
Lamiaceae	*Satureja macrantha* C. A. Meyer.	Aerial parts	OA	[1492]
Lamiaceae	*Satureia Montana* Linn.	Whole plant	OA	[1493-1494]
Lamiaceae [*Nepetoideae* (*Mentheae*)]	*Satureja obovata* Lag.	Whole plant	OA	[1495]
Lamiaceae	*Satureja parvifolia* (Phillippi) Epling.	Whole plant	OA	[1496]

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Lamiaceae	*Schizonepeta tenuifolia* (Benth.) Briq.	Aerial parts	OA	[1497]
Lamiaceae	*Scutellaria baicalensis* Georgi.	Cell suspension cultures	OA	[1498]
Lamiaceae	*Scutellaria strigillosa* Hemsl.	Roots	OA	[1499-1500]
Lamiaceae	*Stachys spinosa* Linn.	Aerial parts	OA	[1501]
Lamiaceae	*Syncolostemon rotundifolius* E. Mey. ex Benth.	Whole plant	OA	[1502]
Lamiaceae	*Teucrium fruticans* Linn.	Whole plant	OA	[1503]
Lamiaceae	*Teucrium marum* Verum.	Whole plant	OA	[1504]
Lamiaceae	*Thymus bashkiriensis* Klokov et Roussine	Aerial parts	OA	[1505]
Lamiaceae	*Thymus broussonettii* Boiss.	Leaves	OA	[1506-1507]
Lamiaceae	*Thymus caespititius* Brot.	Whole plant	OA	[1508]
Lamiaceae	*Thymus capitauts* Linn.	Whole plant	OA	[1509]
Lamiaceae	*Thymus caucasicus* Willd. ex Ronniger	Whole plant	OA	[1510]
Lamiaceae	*Thymus dimorphus* Klokov et Roussine	Whole plant	OA	[1511]
Lamiaceae	Thymus kotschyanus Boiss. et Hohen.	Whole plant	OA	[1512]
Lamiaceae	*Thymus nummularius* M. Bieb.	Whole plant	OA	[1513]
Lamiaceae	*Thymus satureioides* Coss.	Leaves	OA	[1514]
Lamiaceae	*Thymus serpyllum* Linn.	Whole plant	OA	[1515]
Lamiaceae	*Thymus vulgaris* Linn.	Aerial parts	OA	[1516-1518]
Lamiaceae	*Thymus willdenowii* Boiss.	Leaves	OA	[1519-1520]
Lamiaceae	*Vitex negundo* Linn.	Roots	Acetyl OA	[1521]
Lamiaceae	*Zataria multiflora* Boiss.	Leaves, stems and flowers	OA	[1522-1523]
Lamiaceae [*Nepetoideae* (*Mentheae*)]	*Ziziphora clinopodioides* Lam.	Aerial parts	OA	[1524]
Lardizabalaceae R. Br.	*Akebia longeracemosa* Matsum.	Stems	OA OA saponins	[1525-1526]
Lardizabalaceae	*Akebia quinata* (Thunb.) Decne.	Stems or pericarp Branches or stems	OA OA saponins OA	[1527-1538]
Lardizabalaceae	*Akebia trifoliata* (Thunb.) Koidz.	Roots or stems Seeds	OA OA saponins	[1539-1541]
Lardizabalaceae	*Akebia trifoliata* (Thunb.) Koidz. var. australis (Dieli.) Kehd.	Stems	OA saponins	[1542]

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Lardizabalaceae	*Boquila trifoliata* (DC.) Decne.	Leaves	OA	[1543]
Lardizabalaceae	*Decaisnea fargesii* Franchet.	Stems	OA OA saponins	[1544-1546]
Lardizabalaceae	*Lardizabala biternata* Ruiz and Pavon	Whole plant	OA	[1547]
Lardizabalaceae	*Stauntonia hexaphylla* (Thunb.) Decne.	Whole plant Seeds	OA OA saponins	[1548-1549]
Loasaceae Juss.	*Petalonyx parryi* A. Gray	Whole plant	OA	[1550]
Loganiaceae R. Br. ex Martius	*Strychnos potatorum* Linn.	Seeds	OA OA saponins	[1551]
Loranthaceae Juss.	*Aspidixia angulata* (Heyne) Van Tieghem	Whole plant	OA	[1552-1553]
Loranthaceae	*Loranthus falcatus* Linn. f.	Stems	OA	[1554]
Lythraceae J. St.-Hill.	*Lagerstroemia guilinensis* S. K. Lee et L. F. Lau	Stems	OA	[1555]
Lythraceae	*Lagerstroemia lanceolata* Wall.	Leaves	OA	[1556]
Lythraceae	*Lagerstroemia speciosa* (Linn.) Pers.	Whole plant	OA	[1557]
Lythraceae	*Lythrum anceps* (Koehne) Makino	Whole plant	OA	[1558]
Lythraceae	*Lythrum salicaria* Linn.	Aerial parts	OA	[1559-1561]
Lythraceae	*Punica granatum* Linn.	Seeds or flowers	OA	[1562-1563]
Malpighiaceae Juss.	*Acridocarpus vivy*	Whole plant	OA	[1564]
Malpighiaceae	B*anisteriopsis caapi* (Spruce ex Grisebach) Morton.	Whole plant	OA	[1565]
Malpighiaceae	*Byrsonima crassifolia* (L.) Kunth.	Leaves	OA	[1566-1567]
Malpighiaceae	*Byrsonima microphylla* A. Juss	Leaves	OA	[1568]
Malpighiaceae	*Byrsonima spicata* (Cav.) DC.	Whole plant	OA	[1569]
Malpighiaceae	*Byrsonima verbascifolia* (L.) DC.	Leaves	OA	[1570]
Malvaceae Juss.	*Abutilon karachianum* Husain & Baquar	Whole plant	OA	[1571]
Malvaceae (*Sterculiaceae*)	*Brachychiton australis* (Schott & Endl.) A. Terrac.	Leaves	OA	[1572]
Malvaceae	*Corchorus olitorius* Linn.	Leaves	OA saponins	[1573]
Malvaceae (*Sterculiaceae*)	*Firmiana platanifolia* (Linn. f.) Marsili	Petals	OA	[1574]
Malvaceae (*Sterculiaceae*)	*Guazuma tomentosa* Kunth	Heartwood	OA acetate	[1575]
Malvaceae (*Sterculiaceae*)	*Helicteres angustifolia* Linn.	Roots	OA	[1576-1577]
Malvaceae	*Helicteres isora* Linn.	Roots and stems	OA	[1578]

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(*Sterculiaceae*)				
Malvaceae (*Sterculiaceae*)	*Heritiera littoralis* Dryand. ex Aiton	Stem bark	OA	[1579-1580]
Malvaceae (*Bombacaceae*)	*Ochroma pyramidale* (Cav. ex Lam.) Urb.	Leaves	OA	[1581]
Malvaceae	*Salmalia malabarica* (DC.) Schott et Endl.	Heartwood	OA	[1582]
Malvaceae (*Sterculiaceae*)	*Scaphopetalum thonneri* De Wild.	Stem bark	OA	[1583]
Melastomataceae Juss.	*Memycylon umbelatum* Burm.	Whole plant	OA	[1585]
Melastomataceae	*Miconia albicans* (Sw.) Triana	Wood	OA	[1586-1587]
Melastomataceae	*Miconia fallax* DC.	Aerial parts	OA	[1588-1589]
Melastomataceae	*Miconia ligustroides* (DC.) Naudin	Whole plant	OA	[1590]
Melastomataceae	*Miconia sellowiana* Naudin	Whole plant	OA	[1591]
Melastomataceae	*Miconia stenostachya* (Schrank et Mart.) DC.	Whole plant	OA	[1592]
Meliaceae Juss.	*Cedrela fissilis* Vell.	Roots	OA	[1593]
Meliaceae	*Swietenia mahagoni* (Linn.) Jacq.	Stem bark	OA	[1594-1595]
Melianthaceae Bercht. et J. Presl.	*Bersama engleriana* Gürke	Stem bark	OA saponins	[1596]
Melianthaceae	*Bersama swinnyi* E. Philips	Leaves	OA	[1597]
Melianthaceae	*Bersama yangambiensis* L. Touss.	Whole plant	OA saponins	[1598]
Melianthaceae	Melianthus comosus Vahl.	Root bark	OA acetate	[1599]
Melianthaceae	*Melianthus major* Linn.	Whole plant	OA	[1600]
Menispermaceae Juss.	*Diploclisia glaucescens* (Blume) Diels	Leaves	OA saponins	[1601]
Menyanthaceae Dumort.	*Nymphoides peltatum* (S. G. Gmel.) O. Kuntze.	Whole plant	OA	[1602]
Molluginaceae Bartl.	*Glinus lotoides* Linn.	Seeds or roots	OA	[1603-1604]
Molluginaceae	*Mollugo hirta* Thunb.	Whole plant	OA	[1605]
Molluginaceae	*Mollugo pentaphylla* Linn.	Aerial part	OA	[1606]
Molluginaceae	*Mollugo spergula* Linn.	Root	OA	[1607-1608]
Moraceae Link.	*Broussonetia kazinoki* Sieb.	Root bark	OA	[1609]
Moraceae	*Ficus benjamina* Linn.	Leaves	OA	[1610]
Moraceae	*Ficus carica* Linn.	Leaves	OA	[1611]
Moraceae	*Ficus hispida* Linn. f.	Leaves	OA	[1612]

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Moraceae	*Ficus microcarpa* Linn. f.	Fruits or leaves	OA	[1613-1614]
Moraceae	*Morus alba* Linn.	Whole plant	OA	[1615]
Moraceae	*Streblus asper* Lour.	Roots	OA saponins	[1616-1617]
		Aerial parts	OA	
Myricaceae Blume	*Myrica gale* Linn.	Whole plant	OA	[1618]
Myricaceae A. Rich ex Kunth.	*Myrica rubra* Siebold et Zucc.	Stem bark	OA	[1619]
Myristicaceae R. Br.	*Myristica fragrans* Houtt.	Seeds	OA	[1620]
Myrsinaceae R. Br.	*Ardisia japonica* (Thunb.) Bl.	Whole plant	OA	[1621]
Myrsinaceae	*Ardisia nerifolia* D.C.	Whole plant	OA saponins	[1622]
Myrsinaceae	*Lysimachia davurica* Ledeb.	Whole plant	OA	[1623]
Myrtaceae Juss.	*Backhousia angustifolia* F. Muell.	Leaves	OA	[1624]
Myrtaceae	*Baeckea gunniana* Schauer ex Walp.	Whole plant	OA	[1625]
Myrtaceae	*Callistemon rigidus* R. Br.	Whole plant	OA	[1626]
Myrtaceae	*Callistemon viminalis* G. Don.	Whole plant	OA	[1627]
Myrtaceae	*Cleistocalyx operculatus* (Roxb.) Merr. et Perry.	Flower buds	OA	[1628]
Myrtaceae	*Eucalyptus calophylla* R. Br. ex Lindl.	Bark	OA acetate	[1629]
Myrtaceae	*Eucalyptus camaldulensis* Dehnh.	Leaves	OA	[1630-1632]
Myrtaceae	*Eucalyptus camaldulensis* F. V. Muell. var.. *obtusa* Blak.	Leaves	OA	[1633-1634]
Myrtaceae	*Eucalyptus camaldulensis* Dehnh. var.. *pendula* Blak. et Jacobs	Leaves	OA	[1635]
Myrtaceae	*Eucalyptus globulus* Labill.	Outer barks leaves or fruits	OA	[1636-1638]
Myrtaceae	*Eucalyptus occidentalis* Endl.	Leaves	OA	[1639-1640]
Myrtaceae	*Eucalyptus albens* Benth.	Leaves	OA	[1641]
	E. leucoxylon F. Muell.			
	E. obliqua L'Herit			
	E. ovata Labill.			
	E. rostrata Schlecht			

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	E. polyanthemos Schauer			
	E. sideroxylon A. Cunn. ex Woolls			
	E. umbellatum (Sie-. bold et Zuccarini) Blume			
Myrtaceae	*Eucalyptus perriniana* E. Muell.	Culttured cells	OA	[1642]
Myrtaceae	*Eucalyptus robusta* Smith.	Leaves	OA	[1643]
Myrtaceae	*Eugenia caryophyllata* Thunb.	Cloves	OA	[1644]
Myrtaceae	*Eugenia grandis* (Blume) Wight	Stem bark	OA	[1645]
Myrtaceae	*Eugenia gustavioides* F. M. Bailey	Wood	OA	[1646]
Myrtaceae	*Eugenia jambolana* Lamarck	Flowers	OA	[1647-1650]
Myrtaceae	*Eugenia javanica* Lamarck	Flowers	OA	[1651]
Myrtaceae	*Eugenia maire* A. Cunn.	Leaves	OA	[1652]
Myrtaceae	*Leptospermum scoparium* Forst.	Ground fibrous outer bark	OA	[1653]
Myrtaceae	*Luma gayana* (Barn.) Burret	Aerial parts	OA	[1654]
Myrtaceae	*Melaleuca bracteata* F. Muell.	Whole plant	OA	[1655]
Myrtaceae	*Myrtus communis* Linn.	Leaves	OA	[1656]
Myrtaceae	*Plinia pinnata* Linn.	Aerial parts	OA	[1657]
Myrtaceae	*Psidium guajava* Linn.	Leaves, heartwood or flowers	OA	[1658-1664]
		Fruit	OA saponins	
Myrtaceae	*Syncarpia glomulifera* (Sm.) Nied.	Bark	OA 3-acetate	[1665]
Myrtaceae	*Syzygium aromatica* (Linn.) Merr. et Perry.	Buds or clove	OA	[1666-1670]
Myrtaceae	*Syzygium buxifolium* Hook. et Arn.	Stem and roots	OA	[1671]
Myrtaceae	*Syzygium claviflorum* (Roxb.) Wall.	Whole plant	OA	[1672]
Myrtaceae	*Syzygium formosanum* (Hayata) Mori	Leaves	OA	[1673]
Myrtaceae	*Syzygium guineense* (Willd.) DC.	Leaves	OA	[1674]
Myrtaceae	*Ugni molinae* Turcz.	Leaves	OA	[1675]
Nyctaginaceae Juss.	*Mirabilis himalaica* (Edgew.) Heimerl	Roots	OA	[1676]
Nyctaginaceae	*Mirabilis jalapa* Linn.	Aerial parts	OA	[1677]
Nyctaginaceae	*Pisonia umbellifera* (Forst.) Seem.	Leaves	OA saponins	[1678]
Ochnaceae DC.	*Ochna squarrosa* Linn.	Heartwood	OA	[1679]
Olacaceae	*Olax andronensis* Baker.	Leaves, roots, and bark	OA saponin	[1680]

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Olacaceae	*Olax angustifolia* Compere	Whole plant	OA saponins	[1681]
Olacaceae	*Olax dissitiflora* Oliver	Roots	OA OA saponins	[1682]
Olacaceae	*Olax gambecola* Baill.	Whole plant	OA saponins	[1683-1684]
Olacaceae	*Olax glabriflora* Danguy	Leaves, roots, and bark	OA saponin	[1685]
Olacaceae	*Olax latifolia* Engl.	Root bark and roots	OA saponins	[1686]
Olacaceae	*Olax obtusifolia* De Wild.	Root bark	OA saponins	[1687]
Olacaceae	*Olax psittacorum* (Willd.) Vahl.	Leaves, roots, and bark	OA saponin	[1688]
Olacaceae	*Olax subscorpioidea* Oliv.	Roots	OA saponins	[1689-1692]
Olacaceae	*Olax wildemanii* Engl.	Whole plant	OA saponins	[1693-1695]
Olacaceae	*Ximenia americana* Linn.	Roots	OA saponins	[1696]
Oleaceae	*Forsythia koreana* Nakai	Fruits	OA	[1697-1698]
Oleaceae	*Forsythia suspensa* (thumb.) Vahl.	Pericarps of flowers or fruits	OA	[1699-1704]
Oleaceae	*Forsythia viridissima* Lindl.	Fruits	OA	[1705]
Oleaceae	*Fraxinus greggi* A. Gray	Aerial part	OA	[1706]
Oleaceae	*Fraxinus uhdei* (Wenzig) Lingelsh	Fruits, leaves and bark	OA	[1707]
Oleaceae	*Jasminum flexile* Vahl. *J. humile* Linn. *J. multiflorum* (N. L. Burman) *J. sambac* (Linn.) Aiton	Leaves	OA	[1708]
Oleaceae	*Jasminum odoratissimum* Linn.	Leaves	OA	[1709]
Oleaceae	*Ligustrum delavayanum* Hariot	Leaves	OA	[1710]
Oleaceae	*Ligustrum japonicum* Thunb.	Pericarp of fruits, fruits, seeds or leaves	OA	[1711-1716]
Oleaceae	*Ligustrum lucidum* Ait.	Fruits	OA OA saponins	[1717-1733]
Oleaceae	*Ligustrum obtusifolium* Sieb. et Zucc.	Seeds or frutis	OA	[1734-1735]
Oleaceae	*Ligustrum quihoni* Carr.	Branches and leaves	OA	[1736]
Oleaceae	*Ligustrum sinense* Lour.	Fruits	OA	[1737]
Oleaceae	*Nyctanthes arbortristis* Linn.	Leaves or callis	OA	[1738-1740]
Oleaceae	*Olea europaea* Linn.	Fruits, pulp, leaves, skin or seeds	OA	[1741-1779]
Oleaceae	*Olea europaea* Linn. cv. Coratina	Fruits	OA	[1780]

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Oleaceae	*Olea verrucosa* (Willd.) Link.	Leaves	OA	[1781]
Oleaceae	*Osmanthus fragrans* (Thunb.) Loureiro.	Flowers or leaves	OA	[1782-1785]
Oleaceae	*Phyllirea latifolia* Linn.	Leaves	OA	[1786-1788]
Oleaceae	*Schrebera swietenioides* Roxb.	Fruits	OA	[1789]
Oleaceae	*Syringa oblata* Lindl.	Stem bark	OA	[1790]
Onagraceae Juss.	*Chamaenerion angustifolium* (Linn.) Scop.	Leaves	OA	[1791]
Onagraceae	*Epilobium hirsutum* Linn.	Leaves and flowers	OA	[1792]
Onagraceae	*Ludwigia octovalvis* (Jacq.) P. H. Raven.	Whole plant	OA	[1793-1794]
Onagraceae	*Oenothera biennis* Linn.	Roots	OA	[1795-1796]
Onagraceae	*Oenothera speciosa* Nutt.	Seeds or oil	OA	[1797-1799]
Opiliaceae Valeton.	*Opilia celtidifolia* (Guill. et Perr.) Endl.	Leaves and stems	OA saponins	[1800-1803]
Orchidaceae Juss.	*Anoectochilus roxburghii* (Wall.) Lindl.	Whole plant	OA	[1804]
Orchidaceae (*Epidendroideae*)	*Dendrobium densiflorum* Wall. ex Lindl.	Whole plant	OA	[1805]
Orchidaceae [*Vanilloideae* (*Pogoniinae*)]	*Pogonia parviflora* (Lindl.) Reichb. f.	Whole plant	OA saponins	[1806]
Orobanchaceae Vent.	*Boschniakia rossica* (Cham. et Schlecht.) B. Fedtsch. et Flerov [B. Glabra C. A. Mey.]	Aerial parts	OA	[1807-1810]
Orobanchaceae	*Pedicularis oederi* Vahl.	Whole plant	OA	[1811]
Oxalidaceae R. Br.	*Averrhoa bilimbi* Linn.	Whole plant	OA	[1812]
Paeoniaceae Raf.	*Paeonia emodi* Wall. ex Royle.	Whole plant	OA	[1813]
Paeoniaceae	*Paeonia japonica* (Makino) Miyabe et Takeda	Tissue culture	OA	[1814]
Paeoniaceae	*Paeonia suffruticosa* Andrew	Root bark	OA	[1815-1816]
Passifloraceae Juss. ex Roussel	*Passiflora alata* Curtis	Leaves	OA saponins	[1818]
Passifloraceae	*Passiflora quadrangularis* Linn.	Leaves	OA saponins	[1819]
Paulowniaceae Nakai.	*Paulownia tomentosa* (Thunb.) Steud. var. *tsinglingensis* Pai.	Leaves	OA	[1820]
Pedaliaceae R. Br.	*Harpagophytum procumbens* DC.	Roots	OA	[1821-1822]
Phyllanthaceae Martinov. [Phyllantheae (Flueggeinae)]	*Phyllanthus amarus* Schum. et Thonn.	Whole plant	OA	[1823]
Phyllanthaceae	*Phyllanthus polyphyllus* Willd. var.	Leaves	OA saponins	[1824]

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Martinov. [Phyllantheae (Flueggeinae)]	*siamensis* Airy Shaw			
Phyllanthaceae [*Antidesmeae* (*Uapacinae*)]	*Uapaca nitida* Müll-. Arg.	Root bark	OA	[1825]
Phytolaccaceae R. Br.	*Phytolacca americana* Linn.	Seeds or roots	3-Acetyl-OA OA	[1826-1828]
Phytolaccaceae	*Phytolacca dodecandra* L'Herit.	Fruit	OA saponins	[1829-1837]
Phytolaccaceae	*Phytolacca esculenta* Van Houtte	Roots	OA	[1838-1840]
Phytolaccaceae	*Phytolacca insularis* Nakai.	Roots	OA	[1841]
Phytolaccaceae	*Phytolacca dioica* Linn.	Whole plant	OA	[1842]
	Phytolacca octandra Linn.			
	Phytolacca rivinoides Kunth & C. D. Bouché			
Picrodendraceae Small. [*Caletieae* (*Caletieae*)]	*Petalostigma sericea* Walker	Whole plant	OA	[1843]
Pittosporaceae R. Br.	*Pittosporum brevicalyx* (Oliv.) Gagnep.	Bark	OA saponins	[1844]
Pittosporaceae	*Pittosporum nighrensa* Linn.	Whole plant	OA saponins	[1845]
Plantaginaceae Juss.	*Digitalis ciliata* Trautv	Leaves	OA saponins	[1846-1847]
Plantaginaceae	*Hemiphragma heterophyllum* Wallich	Whole plant	OA	[1848]
Plantaginaceae	*Plantago altissima* Linn.	Whole plant	OA	[1849]
	Plantago argentea Chaix.			
	Plantago coronopus Linn.			
	Plantago holosteum Linn.			
	Plantago maritima Linn.			
Plantaginaceae	*Plantago bismarckii* Niederl.	Leaves	OA	[1850]
Plantaginaceae	*Plantago crassifolia* Forssk.	Roots	OA	[1851]
Plantaginaceae	*Plantago cynops* Linn.	Aerial parts	OA	[1852]
Plantaginaceae	*Plantago lagopus* Linn.	Whole plant	OA	[1853-1854]

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Plantaginaceae	*Plantago major* Linn.	Whole plant	OA	[1855-1857]
Plantaginaceae	*Plantago ovata* Forsk.	Aerial parts	OA	[1858]
Plantaginaceae	*Plantago squarrosa* Murray.	Whole plant	OA	[1859]
Plantaginaceae	*Scoparia dulcis* Linn.	Whole plant	OA	[1860]
Plantaginaceae	*Veronicastrum sibiricum* (Linn.) Pennell.	Roots	3-O-acetyl OA	[1861]
Pinaceae Lindl.	*Cedrus deodara* (Roxb.) G. Don.	Roots	OA	[1862]
Pinaceae	*Picea jezoensis* (Sieb. et Zucc.) Carr.	Stem bark	OA	[1863-1864]
Poaceae (R. Br.) Barnhart (*Panicoideae*)	*Cymbopogon distans* (Nees) Wats.	Whole plant	OA	[1865]
Poaceae {*Bambusoideae* [*Oryzodae* (*Oryzeae*)]}	*Porteresia coarctata* (Roxb.) Tateoka	Whole plant	OA	[1866]
Poaceae	*Zea mays* Linn.	Styles and stigmas	OA saponins	[1867]
Polygalaceae Hoffmanns. et Link.	*Polygana japonica* Houtt.	Whole plant	OA saponins	[1868]
Polygalaceae	*Securidaca inappendiculata* Hassk.	Stems	OA	[1869]
Polygonaceae Juss.	*Polygonum aviculare* Linn.	Whole plant	OA	[1870]
Polygonaceae	*Polygonum plebejum* R. Br.	Flowers	OA	[1871]
Polygonaceae	*Polygonatum sibiricum* R. Br.	Root and stems	OA saponins	[1872]
Polypodiaceae Bercht. et J. Presl.	*Pyrrosia clavata* (Bak.) Ching	Whole plant	OA	[1873]
Portulacaceae Juss.	*Talinum tenuissimum* Dinter.	Tubers	OA saponins	[1874-1875]
Portulacaceae	*Talinum triangulare* (Jacq.) Willd.	Roots	OA saponins	[1876]
Primulaceae Batsch ex Borkh.	*Androsace septentrionalis* Linn.	Whole plant	OA saponins	[1877-1878]
Pteridaceae E. D. M. Kirchn. (*Parkeriaceae*)	*Onychium lucidum* (D.Don) Spreng.	Aerial parts	OA	[1879]
Putranjivaceae Endl.	*Putranjiva roxburghii* Wall.	Leaves and root-bark or seed coat	OA saponins	[1880-1884]
Ranunculaceae Juss.	*Anemone anhuiensis* DA	Roots and stems	OA OA saponins	[1885-1888]
Ranunculaceae	*Anemone begoniifolia* Lévl. et Vant.	Whole plant	OA saponins	[1889]
Ranunculaceae	*Anemone davidii* Franch.	Aerial parts	OA saponins	[1890]
Ranunculaceae	*Anemone flaccida* Fr. Schmidt	Rhizome	OA saponins	[1891-1895]

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Ranunculaceae	*Anemone hupehensis* Lemonine	Whole plant	OA saponins	[1896-1897]
Ranunculaceae	*Anemone narcissiflora* L.	Whole plant	OA saponins	[1898-1899]
Ranunculaceae	*Anemone obtusiloba* D. Don.	Whole plant	OA OA saponins	[1900]
Ranunculaceae	*Anemone raddeana* Regel.	Roots or rhizomes	OA 3-acetyl-OA OA saponins	[1901-1911]
Ranunculaceae	*Anemone raddeanin* Regel.	Roots and stems	OA saponins	[1912-1913]
Ranunculaceae	Anemone tomentosa	Roots	OA OA saponins	[1914-1915]
Ranunculaceae	*Anemone rivularis* Buch. Ham. ex DC.	Whole plant	OA saponins	[1916]
Ranunculaceae	*Anemone rupestris* ssp. gelida	Whole plant	OA saponins	[1917]
Ranunculaceae	*Beesia calthaefolia* (Maxim.) Ulbr.	Roots and stems rhizomes	OA saponins	[1918-1919]
Ranunculaceae	*Caltha palustris* Linn.	Stem, root and aerial parts	OA saponins	[1920-1922]
Ranunculaceae	*Clematis apiifolia* DC. *Clematis apiifolia* DC. var. *biternata* Makino	Roots	OA	[1923-1924]
Ranunculaceae	*Clematis chinensis* Osbeck	Roots	OA OA saponins	[1925-1930]
Ranunculaceae	*Clematis japonica* Thunb.	Roots	OA	[1931]
Ranunculaceae	*Clematis koreana* var. *umbrosa* Nakai	Aerial parts	OA saponins	[1932]
Ranunculaceae	*Clematis ligustifolia brevifolia* Nutt.	Whole plant	OA	[1933]
Ranunculaceae	*Clematis mandschurica* Rupr.	Roots	OA OA saponins	[1934-1936]
Ranunculaceae	*Clematis manshurica* Rupr.	Roots	OA saponins	[1937-1938]
Ranunculaceae	*Clematis Montana* Bush. Ham. ex DC.	Stems Roots or leaves	OA OA saponins	[1939-1942]
Ranunculaceae	*Clematis montevidensis* Sprengel.	Whole plant	OA	[1943]
Ranunculaceae	*Clematis orientalis* Linn.	Aerial parts and roots	OA saponins	[1944]
Ranunculaceae	*Clematis paniculata* thumb.	Roots	OA	[1945]
Ranunculaceae	*Clematis patens* Morr. et Decne.	Roots	OA	[1946]
Ranunculaceae	*Clematis stans* Siebold et Zucc. *Clematis stans* Siebold et Zucc. var. *austrojaponensis* (Ohwi) Ohwi.	Roots	OA saponins	[1947-1948]

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Ranunculaceae	*Clematis terniflora* DC.	Roots	OA saponins	[1949-1951]
Ranunculaceae	*Clematis uncinata* var. *ovatifolia* (T. Ito ex Maxim.) Ohwi ex Tamura Syn.	Roots	OA	[1952]
Ranunculaceae	*Clematis vitalba* Linn.	Whole plant	OA OA saponins	[1953-1954]
Ranunculaceae	*Nigella sativa* Linn.	Seeds	OA	[1955-1956]
Ranunculaceae	*Pulsatilla chinensis* (Bunge) Regel.	Roots	OA saponins	[1957]
Ranunculaceae	*Pulsatilla davurica* (Fisch. ex DC.) Spreng.	Underground parts	OA	[1958]
Ranunculaceae	*Pulsatilla koreana* Nakai.	Root	OA saponins	[1959]
Ranunculaceae	*Pulsatilla* Mill.	Underground parts	OA saponins	[1960]
Ranunculaceae	*Pulsatilla patens* (Linn.) Mill. var. *multifida* (Pritz.) S. H. Li et Y. Hui Huang.	Roots	OA saponins	[1961]
Ranunculaceae	*Ranunculus ficaria* Linn.	Tubers	OA saponins	[1962-1963]
Ranunculaceae	*Ranunculus fluitans* Lamk.	Aquatic plant	OA saponins	[1964]
Ranunculaceae	*Coptis teeta* Wall.	Rhizomes	OA	[1965]
Ranunculaceae	*Thalictrum foetidum* Linn.	Whole plant	OA saponins	[1966-1967]
Ranunculaceae	*Thalictrum minus* Linn.	Whole plant	OA OA saponins	[1968-1972]
Rhabdodendraceae Prance	*Rhabdodendron macrophyllum* (Spruce ex Benth.) Huber.	Whole plant	OA saponins	[1973]
Rhamnaceae Juss.	*Discaria longispina* Miers	Stems and leaves	OA	[1974]
Rhamnaceae	*Trevoa trinervis* Miers.	Aerial parts	OA	[1975]
Rhamnaceae	*Zizyphus joazeiro* Mart.	Stem bark	OA	[1976]
Rhamnaceae	*Ziziphus jujuba* Mill.	Leaves Fruits	OA saponins OA	[1977-1981]
Rhamnaceae	*Zizyphus nummularia* (Burm. fil.) Wt. & Arn.	Bark	OA	[1982]
Rhamnaceae	*Zizyphus rugosa* (Lam.) Bark.	Whole plant	OA	[1983]
Rhamnaceae	*Zizyphus spina-christi* (Linn.) Willd.	Leaves	OA	[1984]
Rhamnaceae	*Zizyphus xylopyrus* (Retz.) Willd.	Fruits	OA	[1985]
Rhizophoraceae Pers	*Bruguiera gymnorhiza* (Linn.) Savigny	Leaves	OA	[1986]
Rhizophoraceae	*Ceriops decandra* (Griff.) Ding Hou.	Leaves	OA	[1987-1988]
Rhizophoraceae	*Kandelia candel* (Linn.) Druce	Stem bark	OA	[1989]
Rhizophoraceae	*Rhizophora apiculata* Bl.	Roots	OA	[1990]

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Rhizophoraceae	*Rhizophora mucronata* Poiret	Fresh mangrove leaves	OA	[1991]
Rosaceae Juss.	*Acaena splendens* H. et A.	Whole plant	OA	[1992]
Rosaceae	*Alchemilla alpina* L.	Aerial parts	OA	[1993]
Rosaceae	*Alchemilla faeroensis* (Lange) Buser	Aerial parts	OA	[1994]
Rosaceae	*Alchemilla pastoralis* Buser.	Whole plant	OA	[1995]
Rosaceae	*Alchemilla vulgaris* L.	Aerial parts	OA	[1996]
Rosaceae	*Amelanchier canadensis* L.	Fruits	OA	[1997]
Rosaceae (*Maloideae*)	*Chaenomeles japonica* (Thunb.) Lindl. ex Sapch.	Roots	Oa	[1998-1999]
Rosaceae (*Maloideae*)	*Chaenomeles lagenaria* (Loisel.) Koidz	Fruits	OA	[2000-2002]
Rosaceae (*Maloideae*)	*Chaenomeles sinensis* (Thouin.) Koehne	Fruits	OA	[2003-2008]
Rosaceae (*Maloideae*)	*Cotoneaster adpressus* Bois. cv. Praecox	Aerial parts	OA	[2009]
Rosaceae (*Maloideae*)	*Crataegus* Tourn. ex L.	Tincture	OA	[2010]
Rosaceae (*Maloideae*)	*Crataegus atrofusca* (C. Koch) Kassumova.	Leaves, flowers and fruit	OA	[2011]
	C. azarella Griseb.			
	C. ceratocarpa Kossych.			
	C. curvisepala Lindm.			
	C. dipyrena Pojark.			
	C. karadaghensis Pojark.			
	C. microphylla C. Koch.			
	C. orientalis Pall. ex M. Bieb.			
	C. pojarkoviae Kossysch.			
	C. sphaenophylla Pojark.			

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	C. stankovii Kossych.			
	C. stevenii Pojark.			
	C. taurica Pojark.			
	C. tournefortii Griseb.			
Rosaceae (*Maloideae*)	*Crataegus cuneata* Sieb. et Zucc.	Whole plant	OA	[2012-2013]
Rosaceae (*Maloideae*)	*Crataegus monogyna* Jacq.	Leaves, flowers and fruit	OA	[2014-2015]
Rosaceae (*Maloideae*)	*Crataegus oxyacantha* Linn.	Fruit or leaves	OA	[2016-2019]
Rosaceae (*Maloideae*)	*Crataegus pentagyna* Waldst. et Kit. ex Willd.	Whole plant	OA saponins	[2020-2021]
		Leaves, flowers and fruit	OA	
Rosaceae (*Maloideae*)	*Crataegus pinnatifida* Bge.	Fruits	OA	[2022-2023]
Rosaceae (*Maloideae*)	*Cydonia sinensis* (Thouin) Koehne	Whole plant	OA	[2024]
Rosaceae	*Dryas octopetala* Linn.	Leaves	OA	[2025]
Rosaceae (*Maloideae*)	*Eriobotrya japonica* (Thunb.) Lindl.	Flowers or leaves	OA	[2026-2038]
Rosaceae (*Maloideae*)	*Geum rivale* Linn.	Whole plant	OA	[2039]
Rosaceae	*Kageneckia angustifolia* D. Don	Aerial parts	OA	[2040]
Rosaceae (*Maloideae*)	*Malus pumila* Mill.	Leaves or peel	OA	[2041-2045]
Rosaceae (*Spiraeoideae*)	*Physocarpus intermedius* (Rydb.) C. K. Schneid.	Stem bark	OA	[2046]
Rosaceae (*Rosoideae*)	*Potentilla anserine* Linn.	Roots	OA saponins	[2047]
Rosaceae (*Rosoideae*)	*Potentilla chinensis* Seringe	Whole plant	OA	[2048]
Rosaceae (*Prunoideae*)	*Prunus africaca* (Hook. f.) Kalkman.	Bark	OA OA saponins	[2049-2051]
Rosaceae	*Prunus amygdalus* Dulcis	Hulls	OA	[2052]

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(*Prunoideae*)				
Rosaceae (*Prunoideae*)	*Prunus avium* Linn.	Fruit	OA	[2053-2054]
Rosaceae (*Prunoideae*)	*Prunus domestica* Linn.	Cuticular wax	OA	[2055]
Rosaceae (*Prunoideae*)	*Prunus dulcis* (Mill.) D. A. Webb	Hulls or crops	OA	[2056-2057]
Rosaceae (*Prunoideae*)	*Prunus laurocerasus* Linn.	Leaves	OA	[2058-2059]
Rosaceae (*Prunoideae*)	*Prunus mume* Sieb. et Zucc.	Fruit or stems	OA	[2060-2061]
Rosaceae (*Prunoideae*)	*Prunus spinosa* Linn.	Flowers	OA	[2062]
Rosaceae (*Prunoideae*)	*Prunus zippeliana* Miq.	Leaves and branches	OA	[2063]
Rosaceae	*Pyrus communis* Linn.	Flowers	OA	[2064]
Rosaceae	*Pyrus malus* Linn.	Leaves	OA	[2065]
Rosaceae (*Rosoideae*)	*Rosa bella* Rehd. et Wils.	Fruits	OA	[2066]
Rosaceae (*Rosoideae*)	*Rosa bracteata* Wendl. var. bracteata	Fruits	OA	[2067]
Rosaceae (*Rosoideae*)	*Rosa davidii* Crep.	Fruits	OA	[2068]
Rosaceae (*Rosoideae*)	*Rosa davurica* Pall.	Mature fruits or roots	OA	[2069-2070]
Rosaceae (*Rosoideae*)	*Rosa gallica* Linn.	Flowers	OA glycosides	[2071]
Rosaceae (*Rosoideae*)	*Rosa laevigata* Michx.	Aerial parts	OA	[2072]
Rosaceae (*Rosoideae*)	*Rosa omeienisis* Rolfe Rhed. et Wils.	Fruits	OA	[2073]
Rosaceae (*Rosoideae*)	*Rosa sericea* Lindl.	Fruits	OA	[2074]
Rosaceae (*Rosoideae*)	*Rosa soulieana* Crép *Rosa multibracteata* Helms. et E. H. Wils.	Fruits	OA	[2075]
Rosaceae	*Rosa taiwanensis* Nakai.	Root and aerial parts	OA	[2076]

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(*Rosoideae*)				
Rosaceae (*Rosoideae*)	*Rosa transmorrisonensis* Hayata.	Aerial parts	OA	[2077]
Rosaceae (*Rosoideae*)	*Rosa woodsii* Lindl.	Leaves	OA	[2078]
Rosaceae	*Rubus chingii* Hu.	Fruits	OA	[2079]
Rosaceae	*Rubus* idaeus Linn.	Epicuticular wax from red raspberry	OA	[2080]
Rosaceae	*Rubus parkeri* Hance.	Roots	OA	[2081]
Rosaceae	*Rubus irritans* Focker. *Rubus pileatus* Focke.	Aerial parts	OA	[2082]
Rosaceae (*Maloideae*)	*Sorbus aria* (Linn.) Crantz.	Buds	OA	[2083]
Rosaceae (*Rosoideae*)	*Tetraglochin cristatum* (Britton) Rothm.	Whole plant	OA	[2084]
Rosaceae [*Spiraeoideae* (*Spiraeeae*)]	*Tripetaleia paniculata* (Linn.) Siebold et Zuccarini	Wood or flowers	OA	[2085-2086]
Rosaceae [*Spiraeoideae* (*Spiraeeae*)]	*Triplostegia grandiflora* Gagnep.	Roots	OA saponins	[2087-2089]
Rubiaceae Juss.	*Bouvardia ternifolia* (Cav.) Schltdl.	Stems	OA	[2090]
Rubiaceae	*Brenania brieyi* de Wild.	Fruit pericarps	OA	[2091]
Rubiaceae	*Canthium diococcum* (Gaertn.) Merr.	Bark	OA	[2092]
Rubiaceae	*Catunaregam nilotica* (Stapf) Tirveng.	Fruits	OA saponins	[2093]
Rubiaceae	*Chiococca braquiata* Ruiz et Pav.	Leaves	OA	[2094]
Rubiaceae	*Coussarea paniculata* (Vahl) Standl.	Twigs	OA	[2095]
Rubiaceae	*Exostema coulteri* (Hooker f.) T. McDowell	Aerial parts	OA	[2096]
Rubiaceae	*Galium tortumense* Ehrend. et Schönb.-Tem.	Aerial parts	OA	[2097]
Rubiaceae	*Gardenia erubescens* Stapf .et Hutch.	Whole plant	OA	[2098]
Rubiaceae	*Gardenia jasminoides* Ellis.	Stems and roots	OA acetate	[2099]
Rubiaceae	*Gardenia jovis-tonantis* (Welw.) Hiern.	Root bark	OA	[2100]
Rubiaceae	*Gardenia latifolia* Solander	Whole plant	OA	[2101]
Rubiaceae	*Gardenia lutea* Fresen.	Fruit pulp	OA saponins	[2102]
Rubiaceae	*Gardenia saxatilis* Geddes.	Twigs	OA	[2103]

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Rubiaceae	*Gardenia turgida* Roxb.	Roots	OA	[2104-2105]
Rubiaceae	*Hedyotis acutangula* Champ.	Whole plant	OA	[2106]
Rubiaceae	*Hedyotis auricularia* Linn.	Whole plant	OA	[2107]
Rubiaceae	*Hedyotis biflora* (Linn.) Lamk.	Whole plant	OA	[2108]
Rubiaceae	*Hedyotis capitellata* (Linn.) F-Muell.	Leaves	OA	[2109]
Rubiaceae	*Hedyotis chrysotricha* (Palib.) Merr.	Whole plant	OA	[2110]
Rubiaceae	*Hedyotis diffusa* Willd.	Whole plant	OA	[2111]
Rubiaceae	*Hedyotis intricata* Fosberg	Whole plant	OA	[2112]
Rubiaceae	*Hedyotis nigricans* (Lamarck) Fosberg	Whole plant	OA	[2113]
Rubiaceae	*Lxora coccinea* Linn.	Air-dried flowers	OA	[2114]
Rubiaceae	*Meyna laxiflora* Robyns	Leaves	OA saponins	[2115-2116]
Rubiaceae (*Rubioideae*)	*Mitracarpus scaber* Zucc.	Whole plant	OA	[2117-2118]
Rubiaceae	*Mitragyna stipulosa* (DC.) O. Kuntze.	Bark	OA	[2119]
Rubiaceae	*Morinda citrifolia* Linn.	Leaves	OA	[2120]
Rubiaceae	*Morinda lucida* Benth.	Leaves	OA	[2121]
Rubiaceae (*Rubioideae*)	*Mussaenda pubescens* Ait. f.	Aerial parts	OA saponins	[2122]
Rubiaceae	*Nauclea orientalis* Linn.	Stems	OA	[2123]
Rubiaceae (*Rubioideae*)	*Oldenlandia corymbosa* Linn.	Whole plant	OA	[2124]
Rubiaceae (*Rubioideae*)	*Oldenlandia retrorsa* Boiss.	Whole plant	OA	[2125]
Rubiaceae (*Rubioideae*)	*Oldenlandia diffusa* (Willd.) Roxb.	Whole plant	OA	[2126-2128]
Rubiaceae (*Rubioideae*)	*Paederia chinensis* Hance.	Fruit	OA	[2129]
Rubiaceae (*Rubioideae*)	*Paederia scandense* (Lour.) Merr.	Whole plant	OA	[2130-2131]
Rubiaceae (*Rubioideae*)	*Paeonia lactiflora* Pall.	Roots	OA	[2132]
Rubiaceae	*Ploclama pendula* Aiton	Wood	OA	[2133]
Rubiaceae	*Prismatomeris tetrandra* (Roxb.) K. Schum.	Leaves	OA	[2134]
Rubiaceae [*Mimosoideae* (*Mimoseae*)]	*Prosopis glandulosa* Torrey	Leaves and twigs or stems	OA	[2135-2136]

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Rubiaceae	*Putoria calabrica* (Linn. fil.) DC.	Whole plant	OA OA acetate	[2137-2138]
Rubiaceae	*Randia dumetorum* (Retz.) Lam.	Fruits, root bark or stem heartwood	OA OA saponins	[2139-2144]
Rubiaceae	*Randia siamensis* Craib.	Roots or fruits	OA OA saponins	[2145-2146]
Rubiaceae	*Randia spinosa* (Thunb.) Poir.	Whole plant	OA	[2147]
Rubiaceae	*Randia tetrasperma* (Roxb.) Benth. et Hook. f. ex Brandis.	Fruits	OA	[2148]
Rubiaceae	*Randia uliginosa* (Retz.) Poir.	Fruits	OA	[2149]
Rubiaceae (*Rubioideae*)	*Rubia cordifolia* Linn.	Roots	OA OA acetate	[2150-2151]
Rubiaceae (*Rubioideae*)	*Rubia peregrina* Linn.	Leaves	OA	[2152]
Rubiaceae	*Rudgea jasminoides* (Cham.) Müll. Arg.	Leaves	OA	[2153]
Rubiaceae	*Scyphiphora hydrophyllacea* Gaertn. F.	Branches	OA	[2154]
Rubiaceae	*Serissa serissoides* (DC.) Druce.	Leaves or roots	OA	[2155-2157]
Rubiaceae	*Tricalysia niamniamensis* Schweinf. ex Hiern	Whole plant	OA	[2158]
Rubiaceae	*Uncaria tomentosa* (Willd. ex Schult.) DC.	Whole plant	OA	[2159-2160]
Rubiaceae	*Uncaria yunanensis* Hsia. C. C.	Roots	OA	[2161]
Rubiaceae	*Xeromphis nilotica* (Stapf) Keay	Bark	OA saponins	[2162]
Rubiaceae	*Xeromphis spinosa* (Thunb.) Keay	Leaves	OA saponins	[2163]
Ruscaceae Spreng.	*Ophiopogon japonicus* (Linn. f.) Ker-Gawl.	Tubers or rhizomes	OA	[2164-2165]
Rutaceae Juss.	*Evodla ailanyifoliae* Hierre. Fl. For. Cochinch.	Whole plant	OA	[2166]
Rutaceae	*Evodia rutaecarpa* (Juss.) Benth.	Fruits	OA	[2167]
Rutaceae	*Haplophyllum acutifolium (*DC.) G. Don.	Whole plant	OA	[2168]
Rutaceae	*Oriciopsis glaberrima* Engl.	Stem bark	OA	[2169]
Rutaceae	*Ruta graveolens* Linn.	Whole plant	OA saponins	[2170]
Sabiaceae Blume	*Meliosma pungens* (Wall. ex Wight et Arn.) Walp.	Whole plant	OA 3-acetate	[2171]
Sabiaceae	*Sabia parviflora* Wall. ex Roxb.	Whole plant	OA	[2172-2173]
Sabiaceae	*Sabia swinhoei* Hemsl. ex Forb. et Hemsl.	Aerial parts	OA	[2174]
Sabiaceae	*Sabia yunnanensis* Franch.	Stems and leaves	OA	[2175]

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Sapindaceae Juss.	*Aesculus punduana* Wall. ex Hiern	Seeds	OA saponins	[2176]
Sapindaceae	*Blighia sapida* J. König	Fresh fruit	OA saponins	[2177-2178]
Sapindaceae	*Brazilian Serjania*	Whole plant	OA	[2179]
Sapindaceae	*Dodonaea madagascariensis* Radlk.	Leaves	OA saponins	[2180-2181]
Sapindaceae	*Eriocoelum microspermum* Radlk. ex de Wild	Root bark	OA	[2182]
Sapindaceae	*Haplocoelum congolanum* Hauman	Root bark	OA	[2183]
Sapindaceae	*Laccodiscus pseudostripularis* Radlk.	Trunk bark	OA	[2184]
Sapindaceae	*Lecaniodiscus cupanoides* Planch.	Root bark	OA saponins	[2185]
Sapindaceae	*Pometia pinnata* J. R. et G. Forst.	Bark	OA	[2186-2187]
		Wood	OA saponins	
Sapindaceae	*Pometia ridleyi* King	Stem bark	OA saponins	[2188]
Sapindaceae	*Sapindus emarginatus* Vahl.	Pericaps	OA saponins	[2189]
Sapindaceae	*Sapindus mukorossi* Gaertn.	Whole plant	OA saponins	[2190-2191]
Sapindaceae	*Sapindus saponaria* Linn.	Pulp of fruits	OA saponins	[2192-2193]
Sapindaceae	*Sapindus trifoliatus* Linn	Whole plant	OA saponins	[2194]
Sapindaceae	*Serjania salzmanniana* Schltdl.	Whole plant	OA saponins	[2195]
Sapindaceae	*Serjania triquetra* Radlk.	Aerial parts	OA	[2196]
Sapindaceae	*Thinouia coriacea* Britton.	Stems	OA saponins	[2197-2198]
Sapindaceae	*Xanthoceras sorbifolia* Bunge.	Wood	OA	[2199]
Santalaceae R. Br.	*Exocarpus cupressiformis* Labill.	Foliage	OA	[2200]
Santalaceae (*Viscaceae*)	*Korthalsella japonica* (Thunb.) Engl.	Whole plant	OA	[2201]
Santalaceae	*Phoradendron greggii* Trel.	Whole plant	OA	[2202]
Santalaceae	*Phoradendron juniperinum* Engelm. ex Gray	Leaves and stems	OA	[2203-2204]
Santalaceae	*Phoradendron coryae* Trel.	Aerial parts	OA	[2205]
Santalaceae	*Quinchamalium majus* Brongn. En Duperr.	Aerial parts and roots	OA	[2206]
Santalaceae	*Viscum album* Linn.	Leaves	OA	[2207-2218]
Santalaceae	*Viscum album* Linn. var. *coloratum* (Kom.) Ohwi.	Whole plant	OA	[2219]
Santalaceae	*Viscum articulatum* Burm. f.	Whole plant	OA	[2220-2223]
Santalaceae	*Viscum coloratum* (Kom.) Nakai.	Stems and leaves	OA	[2224-2225]
Santalaceae	*Viscum cruciatum* Sieber ex Boiss.	Cuticular waxes	OA	[2226]
Santalaceae	*Viscum liquidam* Baricolum	Whole plant	OA	[2227]

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Santalaceae	*Viscum multinerve* (Hayata) Hayata	Leaves	OA	[2228]
Santalaceae	*Viscum nudum* Danser	Stems	OA	[2229]
Santalaceae	*Viscum ovalifolium* Wall. et DC.	Whole plant	OA	[2230]
Sapotaceae Juss.	*Gambeya boukokoensis* Aubrév. & Pellegr.	Stem bark	OA	[2231]
Sapotaceae	*Madhuca butyracea* (Roxb.) J. F. Macbride	Fruit pulp and bark	OA	[2232]
Sapotaceae	*Madhuca latifolia* (Roxb.) J. F. Macbride	Trunk bark	OA	[2233]
Sapotaceae	*Madhuca longifolia* (J. Konig ex L.) J. F. Macbride	Leaves	OA palmitate	[2234]
Saxifragaceae Juss.	*Tiarella polyphylla* D. Don.	Whole plant	OA saponins	[2235]
Scrophulariaceae Juss.	*Buddleja lindleyana* Fortune	Whole plant	OA	[2236-2237]
Scrophulariaceae	*Craterostigma plantagineum* Hochst	Calli and leaves	OA	[2238]
Scrophulariaceae	*Lancea tibetica* Hook. f et Thoms.	Whole plant	OA	[2239]
Scrophulariaceae	*Lindenbergia indica* (Linn.) Vatke.	Whole plant	OA	[2240]
Scrophulariaceae	*Scrophularia grossheimi* Figwort	Whole plant	OA saponins	[2241]
Scrophulariaceae	*Verbascum thapsus* Linn.	Whole plant	OA	[2242]
Simaroubaceae DC.	*Picramnia sellowii* G. Planchon in Hook.	Aerial parts	OA	[2243]
Smilacaceae Vent.	*Smilax roxburghiana* Wall.	Whole plant	OA	[2244]
Solanaceae Juss.	*Anthocercis littorea* Labill.	Whole plant	OA	[2245]
Solanaceae	*Anthocercis odgersii* F. Muell.	Whole plant	OA	[2246]
Solanaceae	*Atropa acuminate* Royla ex Lindl.	Roots	OA	[2247]
Solanaceae	*Brunfelsia nitida* Benth.	Whole plant	OA	[2248]
Solanaceae	*Cestrum kunthii* Francey	Whole plant	OA	[2249]
Solanaceae (*Cestroideae*)	*Duboisia leichhardtii* F. V. Muell.	Shoot	OA	[2250]
Solanaceae	*Fabiana imbricata* Ruiz. et Pavón	Shoots, calli, roots, or leaves and stalks	OA	[2251-2255]
Solanaceae	*Fabiana patagonica* Speg.	Metabolite	OA	[2256]
Solanaceae	*Nierembergia hippomanica* Miers.	Whole plant	OA	[2257]
Solanaceae	*Petunia patagonica* (Speg.) Millán Origen	Whole plant	OA	[2258]
Solanaceae	*Physalis angulata* Linn.	Whole plant	OA	[2259]
Solanaceae	*Vestia lycioides* Willd.	Aerial parts	OA	[2260]
Solanaceae	*Withania adpressa* (Coss.) Batt.	Leaves	OA	[2261]
Soleriaceae Wynne.	*Meristotheca senegalensis* J. Feldmann.	Whole plant	OA	[2262]

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Staphyleaceae Martinov	*Euscaphis japonica* (Thunb.) Kanitz.	Pericarps of capsules	OA	[2263]
Styracaceae DC. et Spreng.	*Styrax tonkinensis* (Pierre) Craib ex Hartw.	Resins	OA	[2264]
Symplocaceae Jacq.	*Symplocos glomerata* King ex Gamble ssp. congesta (Benth.) Noot.	Stem bark	OA saponins	[2265]
Symplocaceae	*Symplocos racemosa* Roxb.	Stem bark	OA	[2266-2268]
Tephritidae Voir.	*Bactrocera oleae* Gmelin	Fruits	OA	[2269]
Tetracentraceae A. C. Sm.	*Tetracentron sinense* Oliv.	Stem Bark	OA	[2270-2271]
Theaceae Mirb.	*Camellia sasanqua* Thunb.	Seeds	OA	[2272]
Theaceae	*Ternstroemia japonica* Thunb.	Leaves	OA	[2273-2274]
		Fruits	3-O-acetyl -OA	
Thymelaeaceae Juss.	*Daphne mucronata* Royle.	Whole plant	OA	[2275]
Thymelaeaceae	*Daphne oleoides* Schreb.	Whole Plant	OA	[2276]
Thymelaeaceae	*Daphne papyracea* Wall. ex. Steud.	Whole plant	OA	[2277]
Thymelaeaceae	*Thymelaea microphylla* Coss. & Dur. Metnan.	Aerial parts	OA	[2278]
Trochodendraceae Eichler.	*Trochodendron aralioides* Sieb. et Zucc.	Leaves	OA	[2280]
Ulmaceae Mirb.	*Holoptelea integrifolia* (Roxb.) Planch.	Heartwood	OA	[2281-2282]
Ulmaceae	*Ulmus pumila* Linn.	Root bark	OA	[2283]
Ulmaceae	*Ulmus uyematsui* Hayata	Heartwood	OA	[2284]
Ulvaceae Lamouroux ex Dumortier	*Ulva fasciata* Delile	Whole plant	OA	[2285-2286]
Urticaceae Juss.	*Boehmeria caudate* Sw.	Roots	OA saponin	[2287]
Urticaceae	*Boehmeria platyphylla* D Don.	Leaves and twigs	OA	[2288]
Urticaceae	*Debregeasia salicifolia* (D. Don) Rendle	Stems	OA	[2289]
Urticaceae (*Moraceae* or *Cecropiaceae*)	*Musanga cecropioides* R. Brown.	Stem bark	OA	[2290]
Urticaceae	*Urtica dioica* Linn.	Roots	OA	[2291]
Valerianaceae Batsch.	*Centranthus longiflorus* Steven.	Aerial parts	OA	[2292]
Valerianaceae	*Nardostachys chinensis* Batalin.	underground parts	OA	[2293-2294]
Valerianaceae	*Patrinia heterophylla* Bunge.	Stems and roots	OA saponins	[2295]

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Valerianaceae	*Patrinia intermedia* (Hornem.) Roem. et Schult.	Roots	OA OA saponins	[2296-2304]
Valerianaceae	*Patrinia scabiosaefolia* Fisch. ex Link.	Root, seeds, rhizomes or stems	OA OA saponins	[2305-2320]
Valerianaceae	*Patrinia scabra* Bunge	Roots	OA	[2321]
Valerianaceae	*Patrinia villosa* (Thunb.) Juss.	Whole plant	OA	[2322-2324]
Valerianaceae	*Valeriana laxiflora* DC.	Above ground biomass and roots	OA	[2325]
Verbanaceae Vermifuge.	*Duranta plumeri* Linn.	Fruits	OA	[2326]
Verbanaceae	*Duranta repens* Linn.	Whole plant	OA	[2327-2328]
Verbenaceae Jaume Saint-Hilaire	*Aloysia gratissima* (Gillies & Hook.) Tronc.	Aerial parts	OA	[2329]
Verbenaceae	*Bouchea fluminensis* (Vell.) Moldenke	Leaves	OA	[2330]
Verbenaceae	*Callicarpa arborea* Roxb.	Leaves and heartwood	OA	[2331]
Verbenaceae	*Callicarpa cathayana* H. T. Chang	Whole plant	OA	[2332]
Verbenaceae	*Callicarpa macrophylla* Vahl.	Fruits	OA	[2333-2334]
Verbenaceae	Callicarpa macrophylla DC.	Whole plant	OA	[2335]
Verbenaceae	*Caryopteris terniflora* Maxim.	Whole plant	OA	[2336-2337]
Verbenaceae	*Clerodendron inerme* (Linn.) Gaetn.	Leaves and stems	OA	[2338]
Verbenaceae	*Clerondendron serratum* Spreng.	Bark	OA	[2339]
Verbenaceae	*Clerodendrum tomentosum* (Vent.) R. Br.	Leaves	OA	[2340]
Verbenaceae	*Junellia aspera* Gillies ex Hook	Aerial part	OA	[2341-2342]
Verbenaceae	*Junellia seriphiodes*	Aerial parts	OA	[2343-2344]
Verbenaceae	*Junellia spissa* (Sandwith) Moldenke	Aerial parts	OA	[2345]
Verbenaceae	*Junellia tetragonocalyx* (Tronc.) Moldenke	Aerial parts	OA	[2346]
Verbenaceae	*Junellia tridens* (Kuntze) Moldenke	Aerial parts	OA	[2347]
Verbenaceae	*Lampaya hieronymi* Schum. ex Moldenke	Aerial parts	OA	[2348]
Verbenaceae	*Lantana camara* Linn.	Leaves, stems or roots	OA	[2349-2362]
Verbenaceae	*Lantana hispida* Kunth.	Aerial parts	OA	[2363]
Verbenaceae	*Lantana horrida* Kunth.	Aerial parts	OA	[2364]
Verbenaceae	*Lantana indica* Roxb.	Roots	OA	[2365-2366]
Verbenaceae	*Lantana tiliaefolia* Cham.	Whole plant	OA	[2367]
Verbenaceae	*Lantana urticoides* Hayek.	Aerial parts	OA	[2368]
Verbenaceae	*Verbena littoralis* H. B. Kunth.	Aerial parts	OA	[2369-2370]

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Verbenaceae	*Verbena officinalis* Linn.	Aerial parts	OA	[2371]
Violaceae Batsch.	*Viola hondoensis* W. Becker et H. Boss.	Whole plant	OA saponins	[2372]
Violaceae	*Viola ibukiana* Makino	Whole plant	OA saponins	[2373]
Vitaceae Juss.	*Ampelosis brevipedunculata* (Maxim.) Trauty	Roots	OA	[2374-2375]
Vitaceae	*Ampelopsis japonica* (Thunb.) Makino	Roots	OA saponins	[2376]
Vitaceae	*Rhoicissus tridentate* (Linn.) Willd. et Drumm.	Roots	OA	[2377]
Vitaceae	*Vitis amurensis* Rupr.	Frutis	OA	[2378]
Vitaceae	*Vitis hybrids* Hirabayashi	Leaves	OA	[2379]
Vitaceae	*Vitis labruscana* Bailey	Leaves	OA	[2380-2381]
Vitaceae	*Vitis rupestris* Schelle	Leaves	OA	[2382]
Vitaceae	*Vitis vinifera* L.	Pericarps of fruits, seeds or leaves	OA	[2383-2401]
		Fruits	OA OA saponins	
Vitaceae	*Vitis vinifera* Linn. cv. *Fortana*	Pulp and skin	OA	[2402]
Vochysiaceae A. St-Hil.	*Vochysia ferruginea* (Mart.) Spreng.	Leaves and fruits	OA	[2403]
Winteraceae R. Br. ex Lindley	*Drimys winteri* J. R. Forst. & G. Forst.	Bark	OA	[2404]
Zosteropidae Bonaparte	*Woodfordia fruticosa* (Linn.) Kurz.	Leaves	OA	[2405]
Zygophyllaceae R. Br.	*Fagonia* species	Whole plant	OA saponins	[2406]
Zygophyllaceae	*Fagonia arabica* Linn.	Aerial parts	OA saponins	[2407-2409]
Zygophyllaceae	*Fagonia bruguieri* DC.	Whole plant	OA saponins	[2410]
Zygophyllaceae	*Fagonia cretica* Linn.	Aerial parts	OA saponins	[2411-2414]
Zygophyllaceae	*Fagonia glutinosa* Delile	Aerial parts	OA OA saponins	[2415-2417]
Zygophyllaceae	*Fagonia indica* Burm. fil.	Whole plant	OA OA saponins	[2418-2419]
Zygophyllaceae	*Fagonia mollis* Delile	Aerial parts	OA saponins	[2420-2421]
Zygophyllaceae	*Guaiacum officinale* Linn.	Stem bark, pericarp of fruits, flowers or leaves	OA OA saponins	[2422-2428]
Zygophyllaceae	*Porlieria angustifolia* (Engelm.) Grayacan	Roots	OA	[2429]

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Zygophyllaceae	*Porlieria chilensis* I. M. Johnst.	Whole plant	OA saponins	[2430]
Zygophyllaceae	*Zygophyllum album* Linn.	Aerial parts	OA saponins	[2431]
Zygophyllaceae	*Zygophyllum fabago* Linn.	Aerial parts	OA	[2432]
Zygophyllaceae	*Zygophyllum obliquum* Popov.	Whole plant	OA saponins	[2433]

Conclusion

146 families, 698 genera and 1620 species of natural products were found to have OA up to Sep 2007..

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