

An update of review on the presence of Oleanolic acid in Natural Products at Aug 2010

YEUNG Ming Fai

Abstract

Reviews on isolation of oleanolic acid (OA) in natural products were carried out. This elucidates the presence of oleanolic acid in natural products based on scientific findings. There are 158 families, 767 genera and 1710 species of natural products isolated OA up to Aug 2010.

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

Introduction

To elucidate the presence of oleanolic acid in natural products based on scientific findings, reviews on isolation of oleanolic acid (OA) in natural products were carried out¹⁻².

Result of Review

Review results were collaborated and tabulated (Table 1).

Table 1 Review on isolation of oleanolic acid and/or its saponins in natural products. 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
<i>Acanthaceae</i> Juss.	<i>Acanthus illicifolius</i> L.	Leaves	OA
<i>Acanthaceae</i>	<i>Avicennia officinalis</i> Linn.	Leaves	OA
<i>Acanthaceae</i>	<i>Blepharis sindica</i> Stocks ex T. Anders	Seeds	OA
<i>Acanthaceae</i>	<i>Dicliptera chinensis</i> (Linn.) Juss.	Whole plants	OA
<i>Acanthaceae</i>	<i>Justicia simplex</i>	Whole plants	OA saponins
<i>Acanthaceae</i>	<i>Gendarussa vulgaris</i> Nees	Aerial parts	OA
<i>Actinidiaceae</i> Gilg. et Werderm.	<i>Actinidia arguta</i> (Sieb. et Zucc.) Planch. ex Miq.	Leaves or stems	OA
<i>Actinidiaceae</i>	<i>Actinidia deliciosa</i> C. F. Liang et A. R. Ferguson	Roots	OA
<i>Actinidiaceae</i>	<i>Clematoclethra actinidioides</i> (Maxim.) Y. C. Tang et Q. Y. Xiang	Twigs and Leaves	OA
<i>Actinidiceae</i>	<i>Saurauia napaulensis</i> DC.	Barks	OA
<i>Adoxaceae</i> E. Mey.	<i>Sambucus adnata</i> Wall. ex DC.	Whole plants	OA
<i>Adoxaceae</i>	<i>Sambucus canadensis</i> Linn.	Whole plants	OA
<i>Adoxaceae</i>	<i>Sambucus chinensis</i> Lindl.	Whole plants	OA
<i>Adoxaceae</i>	<i>Sambucus formosana</i> Nakai	Whole plants	OA

<i>Adoxaceae</i>	<i>Sambucus Mexicana</i> K. Presl ex. DC.	Whole plants	OA
<i>Adoxaceae</i>	<i>Sambucus nigra</i> L.	Barks of elder or flowers	OA
<i>Adoxaceae</i>	<i>Sambucus sieboldiana</i> var <i>miquelii</i> (Nakai) Hara.	Leaves	OA
<i>Adoxaceae</i>	<i>Sambucus williamsii</i> Hance.	Stem branch	OA
<i>Adoxaceae</i>	<i>Viburnum awabuki</i> K. Koch.	Whole plants	OA
<i>Adoxaceae</i>	<i>Viburnum cylindricum</i> Buch. – Ham. ex D. Don	Whole plants	OA
<i>Adoxaceae</i>	<i>Viburnum erubescens</i> Wall.	Whole plants	OA
<i>Adoxaceae</i>	<i>Viburnum lantana</i> Linn.	Leaves	OA
<i>Adoxaceae</i>	<i>Viburnum prunifolium</i> Linn.	Barks	OA
<i>Adoxaceae</i>	<i>Viburnum nervosum</i> J. D. Hooker & Thomson	Whole plants	OA
<i>Adoxaceae</i>	<i>Viburnum opulus</i> Linn.	Whole plants	OA OA saponins
		Leaves or barks	OA
<i>Adoxaceae</i>	<i>Viburnum tinus</i> Linn.	Leaves	OA
<i>Alliaceae</i> Batsch ex Borkh.	<i>Allium cepa</i> Linn.	Roots	OA
<i>Alliaceae</i>	<i>Allium sativum</i> L.	Roots	OA
<i>Altingiaceae</i> Horan.	<i>Liquidambar formosana</i> Hance	Fruits	OA
<i>Altingiaceae</i>	<i>Liquidambar orientalis</i> Miller.	Resin	OA
<i>Amaranthaceae</i> Juss.	<i>Achyranthes aspera</i> L.	Seed or fruits	OA saponins
		Roots	OA OA saponins
<i>Amaranthaceae</i>	<i>Achyranthes bidentata</i> Bl.	Roots or aerial parts	OA OA saponins
		Seeds	OA
<i>Amaranthaceae</i>	<i>Achyranthes fauriei</i> H. Lév. et Vaniot	Roots	OA OA saponins
<i>Amaranthaceae</i>	<i>Aerva lanata</i> L.	Whole plants	OA saponins
<i>Amaranthaceae</i>	<i>Aerva javanica</i> (Burm. f.) Juss. Ex Schult.	Leaves	OA
		Whole plants	OA saponins
<i>Amaranthaceae</i>	<i>Alfernanthera philoxtroides</i> (Mart) Griseb	Stems and leaves	OA saponins
<i>Amaranthaceae</i>	<i>Alternanthera philoxeroides</i> (Mart.) Griseb.	Stem leaves	OA OA saponins

<i>Amaranthaceae</i>	<i>Alternanthera pungens</i> Kunth	Fruits	OA saponins
		Whole plants	OA
<i>Amaranthaceae</i>	<i>Alternanthera sessilis</i> (Linn.) D. C.	Leaves	OA saponins
<i>Amaranthaceae</i>	<i>Amaranthus cruentus</i> L.	Leaves	OA
<i>Amaranthaceae</i>	<i>Amaranthus muricatus</i> (Moquin) Gillies ex Hicken	Aerial parts	OA
<i>Amaranthaceae</i>	<i>Amaranthus spinosus</i> L.	Roots	OA saponins
		Leaves and stems	OA
<i>Amaranthaceae</i>	<i>Anabasis articulate</i> L.	Leaves and stems	OA
<i>Amaranthaceae</i>	<i>Anabasis setifera</i> Moq.	Whole plants	OA saponins
<i>Amaranthaceae</i>	<i>Atriplex nummularia</i> Lindl.	Aerial parts	OA
<i>Amaranthaceae</i>	<i>Atriplex stocksii</i> Boiss.	Whole plants	OA
<i>Amaranthaceae</i>	<i>Atriplex stylosa</i> Viv.	Aerial parts	OA saponins
<i>Amaranthaceae</i>	<i>Bassia muricata</i> Linn.	Aerial parts	OA saponins
<i>Amaranthaceae</i>	<i>Beta vulgaris</i> Linn.	Roots, leaves or tubers	OA OA saponins
<i>Amaranthaceae</i>	<i>Celosia argentea</i> L.	Whole plants	OA saponins
<i>Amaranthaceae</i>	<i>Chenopodium album</i> Linn.	Seeds or flowers	OA saponins
	(<i>Chenopodioideae</i>)		
<i>Amaranthaceae</i>	<i>Chenopodium ficifolium</i> Smith.	Aerial parts	OA
	(<i>Chenopodioideae</i>)		OA saponins
<i>Amaranthaceae</i>	<i>Chenopodium pallidicaule</i> Aellen.	Seeds	OA saponins
	(<i>Chenopodioideae</i>)		
<i>Amaranthaceae</i>	<i>Chenopodium quinoa</i> Willd.	Fruits, roots, leaves or seeds	OA OA saponins
	(<i>Chenopodioideae</i>)		
<i>Amaranthaceae</i>	<i>Climacoptera transoxana</i> (Iljin) Botsch.	Aerial parts	OA saponins
<i>Amaranthaceae</i>	<i>Cornulaca monacantha</i> Delile	Aerial parts	OA saponins
	(<i>Chenopodioideae</i>)		
<i>Amaranthaceae</i>	<i>Cyathula officinalis</i> Kuan	Roots	OA saponins
<i>Amaranthaceae</i>	<i>Gomphrena macrocephala</i> A St. –Hil.	Roots	OA saponins
<i>Amaranthaceae</i>	<i>Kochia scoparia</i> (Linn.) Schrad.	Fruits	OA
	(<i>Chenopodioideae</i>)		OA saponins
		Seeds	OA
<i>Amaranthaceae</i>	<i>Kochia indica</i> Wight	Aerial parts	OA saponins
	(<i>Chenopodioideae</i>)		
<i>Amaranthaceae</i>	<i>Kochia trichophylla</i> Stapf.	Whole plants	OA

(Chenopodioideae)			OA saponins
Amaranthaceae	<i>Pfaffia glomerata</i> (Sprengel) Pedersen	Whole plants	OA
Amaranthaceae	<i>Pfaffia paniculata</i> (Mart.) Kuntze	Roots	OA
			OA saponins
Amaranthaceae	<i>Salsola micranthera</i> Botsch.	Aerial parts	OA saponins
(Chenopodioideae)			
Amaranthaceae	<i>Celosia argentea</i> Linn.	Whole plants	OA
(Amaranthoideae)			
Amaranthaceae	<i>Spinacia oleracea</i> Linn.	Aerial parts	OA saponins
Amaranthaceae	<i>Suaeda maritima</i> (Linn.) Dumort.	Fresh mangrove	OA
(Chenopodioideae)		leaves	
Anacardiaceae R. Br.	<i>Anacardium occidentale</i> Linn.	Whole plants	OA
Anacardiaceae	<i>Ozoroa mucronata</i> (Bernh. ex Krauss) R. Fern. et A. Fern.	Whole plants	OA
Anacardiaceae	<i>Pistacia lentiscus</i> Linn.	Resin	OA
Anacardiaceae	<i>Pistacia lentiscus</i> Linn. var. <i>chia</i> Duhamel.	Resins	OA
Anacardiaceae	<i>Pistacia terebinthus</i> Linn.	Whole plants	OA
Anacardiaceae	<i>Pleiogynium solandri</i> (Benth.) Engl.	Stems, leaves, fruits	OA
Anacardiaceae	<i>Rhus alata</i> Thunb.	Whole plants	OA
Anacardiaceae	<i>Rhus javanica</i> Linn.	Roots	OA
Anacardiaceae	<i>Spondias mangifera</i> Willd.	Fruits	OA
Apiaceae Lindl.	<i>Ammi majus</i> L.	Fruits	OA
Apiaceae	<i>Astrantia major</i> L.	Leaves and roots	OA saponins
Apiaceae	<i>Bupleuri chinensis</i> DC.	Roots	OA
			OA saponins
		Aerial parts	OA saponins
Apiaceae	<i>Bupleurum falcatum</i> Linn.	Roots	OA saponins
Apiaceae	<i>Bupleurum rigidum</i> Linn.	Roots and aerial parts	OA
Apiaceae	<i>Bupleurum rotundifolium</i> Linn.	Leaves, stems and	OA
		roots	
Apiaceae	<i>Eryngium amethystinum</i> Linn.	Whole plants	OA
Apiaceae	<i>Eryngium bromeliifolium</i> Delar.	Leaves	OA
			OA saponins
Apiaceae	<i>Eryngium incognitum</i> Pavlov.	Roots	OA
Apiaceae	<i>Eryngium macrocalyx</i> Schrenk.	Whole plants	OA
Apiaceae	<i>Foeniculum vulgare</i> Miller	Fruits	OA
Apiaceae	<i>Glehnia littoralis</i> F. Schm idt ex Miq.	Roots	OA

Apiaceae	<i>Heracleum rapula</i> Franch.	Roots	OA
Apiaceae	<i>Ladyginia bucharica</i> Lipsky	Roots	OA OA saponins
Apiaceae	<i>Peucedanum ledebourielloides</i> K. F. Fu	Roots	OA
Apiaceae	<i>Peucedanum stenocarpum</i> Boiss. et Revter	Whole plants	OA
Apocynaceae Juss.	<i>Alyxia buxifolia</i> R. Br.	Whole plants	OA
Apocynaceae	<i>Alyxia levinei</i> Merr.	Stems and leaves	OA
Apocynaceae	<i>Alyxia sinensis</i> Champ. ex Benth.	Stems	OA
Apocynaceae	<i>Amalocalyx yunnanensis</i> Tsiang	Whole plants	OA
Apocynaceae	<i>Amsonia grandiflora</i> Alexander	Stems and leaves	OA
Apocynaceae	<i>Apocynum cannabinum</i> L.	Rhizomes	OA
Apocynaceae	<i>Apocynum venetum</i> L.	Stems	OA acetate
Apocynaceae	<i>Asclepias curassavica</i> L.	Whole plants	OA
(Asclepiadoideae)			
Apocynaceae	<i>Asclepias linaria</i> Cav. Romerillo	Whole plants	OA
(Asclepiadoideae)			
Apocynaceae	<i>Beaumontia grandiflora</i> Wall.	Stems and leaves	OA
Apocynaceae	<i>Calotropis procera</i> Ait.	Stems	OA saponins
Apocynaceae	<i>Catharanthus roseus</i> (Linn.) G. Don.	Leaves	OA
Apocynaceae	<i>Cynanchum thesioides</i> (Freyn) K. Schum.	Fruits	OA
(Cynanchinae)			
Apocynaceae	<i>Gomphocarpus sinaicus</i> Boiss.	Whole plants	OA
(Asclepiadaceae)			
Apocynaceae	<i>Gymnema sylvestre</i> (Retz.) Schult.	Leaves	OA OA saponins
Apocynaceae	<i>Ichnocarpus frutescens</i> (Linn.) W. T. Aiton	Whole plants	OA
Apocynaceae	<i>Leptadenia pyrotechnica</i> (Forssk.) Decne.	Whole plants	OA saponins
(Asclepiadoideae)			
Apocynaceae	<i>Leptadenia spartium</i> Wight et Arn.	Whole plants	OA
(Asclepiadoideae)			
Apocynaceae	<i>Marsdenia griffithii</i> Hook. f.	Stems	OA
(Asclepiadaceae)			
Apocynaceae	<i>Melodinus australis</i> (F. Mueller) Pierre	Aerial parts	OA
Apocynaceae	<i>Myriopteron extensum</i> (Wight et Arnott) K. Schum.	Whole plants	OA
(Asclepiadaceae)			
Apocynaceae	<i>Nerium indicum</i> Mill.	Leaves or stems of white-flowering plant	OA

Apocynaceae	<i>Nerium odorum</i> Soland	Leaves	OA
Apocynaceae	<i>Nerium oleander</i> Linn.	Leaves	OA
Apocynaceae	<i>Pergularia extensa</i> (Jacq.) N. E. Br.	Leaves	OA
(Asclepiadaceae)			
Apocynaceae	<i>Periploca aphylla</i> Decne.	Aerial parts	OA
(Asclepiadoideae)			
Apocynaceae	<i>Periploca forrestii</i> Schltr.	Whole plants	OA
Apocynaceae	<i>Periploca laevigata</i> Aiton	Fruit barks	OA
(Asclepiadoideae)			
Apocynaceae	<i>Plumeria obtuse</i> Linn.	Leaves	OA
Apocynaceae	<i>Plumeria rubra</i> Linn.	Whole plants	OA
Apocynaceae	<i>Sarcostemma viminale</i> (Linn.) R. Br.	Whole plants	OA
(Asclepiadaceae)			
Apocynaceae	<i>Streptocaulon griffithii</i> Hook. f.	Roots	OA
(Asclepiadoideae)			
Apocynaceae	<i>Tabernaemontana catharinensis</i> A. DC.	Root barks	OA
Apocynaceae	<i>Tabernaemontana divaricata</i> Linn.	Cultured cells	OA
Apocynaceae	<i>Thevetia nerifolia</i> Juss.	Leaves	OA
Apocynaceae	<i>Vinca rosea</i> Linn.	Whole plants	OA
Apocynaceae	<i>Wrightia tinctoria</i> (Roxb.) R. Br.	Pods	OA
Aquifoliaceae A. Rich.	<i>Ilex aquifolium</i> Linn.	Leaves	OA
Aquifoliaceae	<i>Ilex argentina</i> Lillo	Whole plants	OA
Aquifoliaceae	<i>Ilex centrochinensis</i> S. Y. Hu	Leaves	OA
Aquifoliaceae	<i>Ilex cornuta</i> Lindl. et Paxton	Leaves	OA
Aquifoliaceae	<i>Ilex hylonoma</i> Hu et T. Tang	Leaves	OA saponins
Aquifoliaceae	<i>Ilex kudingcha</i> C. J. Tseng	Leaves	OA
Aquifoliaceae	<i>Ilex kwangtungensis</i> Merr.	Leaves	OA
			OA saponins
Aquifoliaceae	<i>Ilex latifolia</i> Thunb.	Leaves or stem barks	OA
Aquifoliaceae	<i>Ilex macrocarpa</i> Oliver	Dried leaves	OA
Aquifoliaceae	<i>Ilex opaca</i> Aiton	Whole plants	OA
Aquifoliaceae	<i>Ilex paraguariensis</i> A. St. Hil.	Leaves	OA saponins
Aquifoliaceae	<i>Ilex pubescens</i> Hook. et Am	Leaves	OA
			Roots
			OA saponins
Aquifoliaceae	<i>Ilex purpurea</i> Hassk.	Leaves	OA saponins

<i>Aquifoliaceae</i>	<i>Ilex rotunda</i> Thunb.	Stem and root barks	OA saponins
<i>Araceae</i> Juss.	<i>Arisarum vulgare</i> Targ.-Tozz.	Leaves and bulbs	OA saponins
<i>Araliaceae</i> Juss.	<i>Acanthopanax giraldii</i> Harms	Stem barks	OA saponins
<i>Araliaceae</i>	<i>Acanthopanax hypoleucus</i> Makino	Leaves	OA saponins
<i>Araliaceae</i>	<i>Acanthopanax nipponicus</i> Makino	Leaves	OA saponins
<i>Araliaceae</i>	<i>Acanthopanax senticosus</i> (Rupr. et Maixm.) Harms	Seeds or leaves	OA OA saponins
<i>Araliaceae</i>	<i>Acanthopanax sessiliflorus</i> (Rupr. et Maxim.) Seem.	Fruits	OA OA saponins
<i>Araliaceae</i>	<i>Acanthopanax sieboldianus</i> Makino	Leaves	OA saponins
<i>Araliaceae</i>	<i>Aralia armata</i> (Wall.) Seem.	Root barks	OA saponins
<i>Araliaceae</i>	<i>Aralia chinensis</i> L.	Roots Barks	OA OA saponins
		Shoots	OA
<i>Araliaceae</i>	<i>Aralia continentalis</i> Kitagwa	Roots or aerial parts	OA saponins
<i>Araliaceae</i>	<i>Aralia cordata</i> Thunb.	Roots or aerial parts	OA OA saponins
		Shoots	OA
<i>Araliaceae</i>	<i>Aralia dasyphylla</i> Miq.	Root barks	OA OA saponins
		Shoots	OA
<i>Araliaceae</i>	<i>Aralia dasyphylla</i> Miq.	Leaves or root barks	OA OA saponins
<i>Araliaceae</i>	<i>Aralia decaisneana</i> Hance.	Roots or root barks	OA OA saponins
<i>Araliaceae</i>	<i>Aralia echnocaulis</i>	Shoots	OA
<i>Araliaceae</i>	<i>Aralia elata</i> Seem.	Root, root barks, buds, shoots or leaves	OA saponins
<i>Araliaceae</i>	<i>Aralia fargesii</i> Franch.	Whole plants	OA
<i>Araliaceae</i>	<i>Aralia mandshurica</i> Rupr. et Maxim.	Roots, stems or leaves	OA OA saponins
<i>Araliaceae</i>	<i>Aralia schmidtii</i> Pojark	Roots	OA
<i>Araliaceae</i>	<i>Aralia spinifolia</i> Merr.	Roots	OA saponins
<i>Araliaceae</i>	<i>Aralia subcapitata</i> Hoo.	Root	OA

			OA saponins
<i>Araliaceae</i>	<i>Aralia taibaiensis</i> Z. Z. Wang et H. C. Zheng	Root, root barks, rhizomes, stem barks or leaves	OA OA saponins
		shoots	OA
<i>Araliaceae</i>	<i>Aralia undulata</i> Hand.-Mazz.	Shoots	OA
<i>Araliaceae</i>	<i>Brassaiopsis glomerulata</i> (Bl.) Regel	Stems	OA
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Cussonia bancoensis</i> Aubrév. & Pellegr.	Stem barks	OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Cussonia barteri</i> Seemann	Stem barks	OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Cussonia bojeri</i> Seem.	Leaves	OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Cussonia paniculata</i> Eckl. & Zeyh.	Leaves	OA saponins
<i>Araliaceae</i>	<i>Cussonia spicata</i> Thunb.	Stem barks	OA saponins
<i>Araliaceae</i>	<i>Dizygotheca elegantissima</i> (Veitcyh. ex Mast.) Vig. & Guill.	Whole plants	OA saponins
<i>Araliaceae</i>	<i>Dizygotheca kerchoveana</i> Hort.	Leaves	OA saponins
<i>Araliaceae</i>	<i>Eleutherococcus senticosus</i> (Rupr. et Maxim.) Harms	Leaves	OA OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Fatsia japonica</i> (Thunb.) Decne. et Planch.	Flower buds, mature fruits, fruit percarps or leaves	OA saponins
<i>Araliaceae</i>	<i>Hedera canariensis</i> Willd.	Leaves	OA saponins
<i>Araliaceae</i>	<i>Hedera caucasigena</i> Pojack.	Leaves	OA saponins
<i>Araliaceae</i>	<i>Hedera colchica</i> K. Koch.	Leaves	OA OA saponins
<i>Araliaceae</i>	<i>Hedera helix</i> Linn.	Leaves, flowers or fruits	OA OA saponins
<i>Araliaceae</i>	<i>Hedera nepalensis</i> K. Koch.	Inflorescence	OA
		Stem barks	OA saponins
<i>Araliaceae</i>	<i>Hedera pastuchowii</i> G. N. Woronow	Leaves	OA saponins
<i>Araliaceae</i>	<i>Hedera taurica</i> Carr.	Stems	OA saponins
<i>Araliaceae</i>	<i>Heteropanax fragrans</i> (Roxb.) Seemann	Stems and roots	OA
<i>Araliaceae</i>	<i>Kalopanax septemlobus</i> (Thunb.) Koidz.	Wood or roots	OA saponins

		Stem barks	OA
<i>Araliaceae</i>	<i>Kalopanax septemlobum</i> Thunb. var. <i>typicum</i> Maxim.	Leaves or stems	OA saponins
<i>Araliaceae</i>	<i>Kalopanax septemlobum</i> (Thunb.) Koidz var. <i>maximowiczii</i> (Van Houtte) Hara	Stems	OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Macropanax disperum</i> Blume	Leaves	OA OA saponins
<i>Araliaceae</i>	<i>Melastona dodecandrum</i> Lour.	Whole plants	OA
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Meryta lanceolata</i> Hort.	Leaves and stems	OA saponins
<i>Araliaceae</i>	<i>Myodocarpus gracilis</i> (Dubard et R. Vig.) Lowry	Leaves and barks	OA
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Nothopanax davidii</i> (Franch.) Harms ex Diels.	Barks	OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Oplopanax elatus</i> Nakai	Leaves	OA saponins
<i>Araliaceae</i>	<i>Oplopanax horridus</i> (Sm.) Torr. & A. Gray ex. Miq.	Roots	OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Panax ginseng</i> C. A. Meyer.	Roots Petiole of callus	OA OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Panax japonicus</i> C. A. Meyer	Stems, rhizomes or roots	OA OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Panax japonicus</i> C. A. Meyer var. <i>major</i> (Burk.) C. Y. Wu et K. M. Feng.	Roots	OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Panax pseudo-ginseng</i> Wall. <i>Panax pseudo-ginseng</i> Wall. subsp. <i>himalaicus</i> H. Hara.	Rhizomes or roots	OA OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Panax pseudoginseng</i> Wall. subsp. <i>himalaicus</i> H. Hara. var. <i>angustifolius</i> (Burk.) Li.	Leaves Rhizomes	OA OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Panax pseudoginseng</i> Wall. subsp. <i>himalaicus</i> H. Hara var. <i>bipinnatifidus</i> C. Y. Wu et Feng.	Rhizomes	OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Panax quinquefolium</i> Linn.	Roots or fruits	OA OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Panax stipuleanatus</i> C. T. Tsai et K. M. Meng	Stems and roots	OA saponins
<i>Araliaceae</i> (<i>Aralioideae</i>)	<i>Panax vietnamensis</i> Ha et Grushv	Rhizomes and roots	OA saponins
<i>Araliaceae</i>	<i>Panax vietnamensis</i> Ha et Grushv. var. <i>fuscidiscus</i> K.	Roots	OA saponins

(Aralioideae)	Komatsu.		
Araliaceae	<i>Panax zingiberensis</i> C. Y. Wu et K. M. Feng.	Roots	OA saponins
(Aralioideae)			
Araliaceae	<i>Pentapanax leschenaultia</i> (Wight et Arn.) Seem.	Fruits	OA
Araliaceae	<i>Polyscias amplifolia</i> (Baker) Harms	Flowers	OA saponins
(Aralioideae)			
Araliaceae	<i>Polyscias fruticosa</i> (Linn.) Harms	Roots or leaves	OA
(Aralioideae)			OA saponins
Araliaceae	<i>Polyscias scutellaria</i> (Burm. f.) Fosberg.	Leaves	OA saponins
(Aralioideae)			
Araliaceae	<i>Schefflera arboricola</i> (Hayata) Kanehira	Leaves and stems	OA
(Aralioideae)			OA saponins
Araliaceae	<i>Schefflera abyssinica</i> (Hochst. Ex A. Rich.) Harms	Leaves	OA saponins
(Aralioideae)			
Araliaceae	<i>Schefflera capitata</i> Harms.	Whole plants	OA saponins
(Aralioideae)			
Araliaceae	<i>Schefflera divaricata</i> Merrill.	Aerial parts	OA saponins
(Aralioideae)			
Araliaceae	<i>Schefflera impressa</i> (C. B. Clarke) Harms.	Barks and stem	OA
(Aralioideae)			OA saponins
Araliaceae	<i>Schefflera lucantha</i> Viguier.	Leaves	OA saponins
(Aralioideae)			
Araliaceae	<i>Schefflera venulosa</i> (Wight et Arn.) Harms.	Whole plants	OA
(Aralioideae)			
		Aerial parts	OA saponins
Araliaceae	<i>Scheffleropsis angkai</i> (Craib) Grushv. et Skvortsova	Leaves	OA saponins
Araliaceae	<i>Schefflera delavayi</i> Haums ex Diels	Stem and root barks	OA saponins
(Aralioideae)			
Araliaceae	<i>Tetrapanax popyriferum</i> K. Koch.	Roots or stem barks	OA saponins
Arecaceae Bercht. et J. Presl.	<i>Areca catechu</i> L.	Whole plants	OA
Asteraceae Martinov.	<i>Achillea teretifolia</i> Willd	Whole plants	OA
Asteraceae	<i>Achillea vermicularis</i> Trin.	Whole plants	OA
Asteraceae	<i>Adenocaulon himalaicum</i> Edgew	Whole plants	OA
Asteraceae	<i>Alfredia cernua</i> Cass.	Aerial parts	OA
	<i>Alfredia nivea</i> Kar. & Kir.		
Asteraceae	<i>Arnica chamissonis</i> Less.	Flowers	OA
Asteraceae	<i>Arnica foliosa</i> Nutt.	Flowers	OA

Asteraceae	<i>Arnica montana</i> L.	Flowers	OA
Asteraceae	<i>Artemisia</i> species	Aerial parts	OA
Asteraceae	<i>Artemisia absinthium</i> L.	Whole plants	OA
Asteraceae	<i>Artemisia scoparia</i> Waldst. et Kitag <i>Artemisia capillaries</i> Thunb.	Aerial parts	OA
Asteraceae	<i>Artemisia sieversiana</i> Ehrh. ex Willd.	Aerial parts	OA
Asteraceae	<i>Aspilia kotschyi</i> (Sch. Bip.) Oliv	Leaves	OA OA saponins
Asteraceae	<i>Aspilia montevidensis</i> (Spreng.) Kuntze	Whole plants	OA
Asteraceae	<i>Aster hispidus</i> Thunb.	Aerial parts	OA
Asteraceae	<i>Aster oharai</i> Nakai.	Aerial parts	OA
Asteraceae	<i>Aster scaber</i> Thunb.	Roots	OA saponins
Asteraceae	<i>Aster tataricus</i> L.	Rhizomes	OA
Asteraceae	<i>Aster yunnanensis</i> Franch.	Roots	OA saponins
Asteraceae	<i>Atractylis carduus</i> (Forssk.) C. Chr.	Aerial parts	OA
Asteraceae	<i>Atractylis gummifera</i> L.	Rhizomes	OA
Asteraceae	<i>Baccharis articulata</i> (Lam.) Pers.	Whole plants	OA
Asteraceae	<i>Baccharis conferta</i> Kunth.	Aerial parts	OA
Asteraceae	<i>Baccharis crispa</i> Spreng.	Whole plants	OA
Asteraceae	<i>Baccharis flabellata</i> Hook & Arn.	Aerial parts	OA
Asteraceae	<i>Baccharis gilliessi</i>	Whole plants	OA
Asteraceae	<i>Baccharis heterophylla</i> Kunth.	Leaf resin	OA
Asteraceae	<i>Baccharis illinita</i> DC.	Aerial parts	OA
Asteraceae	<i>Baccharis leptophylla</i> DC.	Whole plants	OA
Asteraceae	<i>Baccharis ligustrina</i> DC.	Whole plants	OA
Asteraceae	<i>Baccharis linearis</i> (Ruiz et Pav.) Pers. Pomerillo	Leaves	OA
Asteraceae	<i>Baccharis myrtilloides</i> Griseb.	Whole plants	OA
Asteraceae	<i>Baccharis pingraea</i> DC.	Whole plants	OA
Asteraceae	<i>Baccharis pseudotenuifolia</i> DC.	Whole plants	OA
Asteraceae	<i>Baccharis rhotinodes</i> Meyen et Walpers	Whole plants	OA
Asteraceae	<i>Baccharis rhomboidalis</i> Rémy	Leaves	OA
Asteraceae	<i>Baccharis rufescens</i> Spreng.	Aerial parts	OA
Asteraceae	<i>Baccharis salicifolia</i> (Ruiz & Pavón) Pers. Jara	Aerial parts	OA
Asteraceae	<i>Baccharis salicina</i> Torr. et A. Gray	Whole plants	OA
Asteraceae	<i>Baccharis solieri</i> J. Rémy	Whole plants	OA
Asteraceae	<i>Baccharis tola</i> Phil.	Whole plants	OA
Asteraceae	<i>Baccharis ulicina</i> Hook. et Arn.	Whole plants	OA

Asteraceae	<i>Bellis perennis</i> Linn.	Whole plants	OA saponins
Asteraceae	<i>Bidens parviflora</i> Willd.	Aerial parts	OA
Asteraceae	<i>Bidens subalternans</i> DC.	Whole plants	OA
Asteraceae	<i>Bidens tripartita</i> Linn.	Whole plants	OA
Asteraceae	<i>Blumea balsamifera</i> (L.) DC.	Leaves	OA
Asteraceae	<i>Borrchia frutescens</i> (L.) DC.	Whole plants	OA
Asteraceae	<i>Cacalia hastata</i> L. Poima	Leaves	OA
Asteraceae	<i>Cacalia pilgeriana</i> (Diets) Ling.	Aerial parts	OA
Asteraceae	<i>Calendula arvensis</i> Linn.	Aerial parts	OA saponins
Asteraceae	<i>Calendula officinalis</i> Linn	Bud of flowers seeds, leaves, shoots, fruits or roots	OA OA saponins
Asteraceae	<i>Carduus nigrescens</i> Vill.	Seed	OA
Asteraceae	<i>Centaurea cuneifolia</i> Sibth. et Sm.	Aerial parts	OA
Asteraceae	<i>Chrysanthellum americanum</i> (L.) Vatke	Whole plants	OA
Asteraceae	<i>Chrysanthellum procumbens</i> A. Rich.	Whole plants	OA saponins
Asteraceae	<i>Cirsium segetum</i> (Bge. Kitam) L.	Whole plants	OA
Asteraceae	<i>Cnicus benedictus</i> Linn.	Whole plants	OA
Asteraceae	<i>Crepis aspera</i> Linn.	Aerial parts	OA
Asteraceae	<i>Cynara cardunculus</i> Linn.	Whole plants	OA saponins
Asteraceae	<i>Dasyphyllum excelsum</i> (D.Don) Cabrera	Epicuticular wax	OA
<i>(Barnadesioideae)</i>			
Asteraceae	<i>Eclipta prostrata</i> L.	Aerial parts	OA
Asteraceae	<i>Eclipta alba</i> (Linn.) Hassk.	Whole plants	OA saponins
Asteraceae	<i>Erigeron annuus</i> (Linn.) Pers.	Aerial parts	OA
Asteraceae	<i>Erigeron canadensis</i> Linn.	Whole plants	OA
Asteraceae	<i>Flaveria trinervia</i> (Spreng.) C. Mohr.	Leaves	OA
Asteraceae	<i>Gazania nivea</i> (DC.) Less.	Rhizomes	OA
Asteraceae	<i>Glossogyne tenuifolia</i> (Labill.) Cassini	Aerial parts	OA
Asteraceae	<i>Grindelia lanceolata</i> Nutt.	Aerial parts	OA
Asteraceae	<i>Grindelia robusta</i> Nutt.	Aerial parts	OA
Asteraceae	<i>Gundelia tournefortii</i> Linn.	Roots	OA saponins
Asteraceae	<i>Helianthus annuus</i> Linn.	Young shoots	OA
<i>(Helianthoideae)</i>			
		Flowers	OA saponins
Asteraceae	<i>Helichrysum forskahlii</i> (J.F.Geml.) Hilliard & B.L.Burt.	Whole plants	OA
Asteraceae	<i>Helichrysum mundii</i> Harv.	Whole plants	OA

Asteraceae	<i>Helichrysum picardii</i> Boiss. et Reuter	Aerial flowering parts	OA
Asteraceae	<i>Helichrysum stoechas</i> (Linn.) Moench	Aerial parts	OA
Asteraceae	<i>Helichrysum rupestre</i> (Rafin.) DC.	Leaves	OA
Asteraceae	<i>Heliopsis scabra</i> Dunal.	Foliage	OA
Asteraceae	<i>Hinterhubera imbricata</i> Cuatrec. et Aristeguieta	Aerial parts	OA
Asteraceae	<i>Inula cappa</i> (Buch.-Ham.) DC.	Barks	OA
(Asteroideae)			
Asteraceae	<i>Inula nervosa</i> Wall.	Whole plants	OA
(Asteroideae)			
Compositae	<i>Ixeridium gracile</i> (DC.) Shih	Whole plants	OA
Asteraceae	<i>Ixeris debilis</i> (Thunb.) A. Gray	Whole plants	OA
[Cichorioideae (Lactuceae)]			
Asteraceae	<i>Ixeris sonchifolia</i> Hance	Whole plants	OA
[Cichorioideae (Lactuceae)]			
Asteraceae	<i>Ixora coccinea</i> Linn.	Flowers	OA
[Cichorioideae (Lactuceae)]			
Asteraceae	<i>Lactuca scariola</i> Linn.	Seeds	OA saponins
Asteraceae	<i>Leontopodium nanum</i> (Hook. f. et Thoms.) Hand.-Mazz.	Whole plants	OA
Asteraceae	<i>Lepidophyllum cupressiforme</i> (Lamarck) Cassini	Aerial parts	OA
Asteraceae	<i>Ligularia kanaitzensis</i> (Franch.) Hand.-Mazz.	Roots and rhizomes	OA
Asteraceae	<i>Ligularia pleurocaulis</i> (Franch.) Hand.-Mazz.	Underground parts	OA
Asteraceae	<i>Lindheimeria texana</i> Gray et Engelm.	Aerial parts	OA
Asteraceae	<i>Matricaria chamomilla</i> Linn.	Flowers	OA
Asteraceae	<i>Melanthera scandens</i> (Schumach. et Thonn.) Roberty.	Leaves	OA saponins
Asteraceae	<i>Mikania monagasensis</i> V.M. Badillo.	Whole plants	OA
Asteraceae	<i>Rhaponticum uniflorum</i> (L.) DC.	Roots	OA
Asteraceae	<i>Senecio burtonii</i> Hook. f.	Whole plants	OA
Asteraceae	<i>Sonchus oleraceus</i> L.	Whole plants	OA
Asteraceae	<i>Olearia paniculata</i> (J. R. Forst. et G. Forst.) Druce.	Barks	OA
Asteraceae	<i>Olearia nummularifolia</i> Hook. f.	Leaves	OA
Asteraceae	<i>Osteospermum vaillantii</i> (Decne) T. Norl.	Whole plants	OA saponins
Asteraceae	<i>Parthenium hysterophorus</i> Linn.	Leaves	OA

			OA saponins
<i>Asteraceae</i>	<i>Pertya robusta</i> (Maxim.) Beauverd	Whole plants	OA
<i>Asteraceae</i>	<i>Rhaponticum uniflorum</i> (Linn.) DC.	Roots	OA
<i>Asteraceae</i>	<i>Saussurea nutans</i> Nakai.	Aerial parts	OA
<i>Asteraceae</i>	<i>Scorzonera hispanica</i> Linn.	Tissue cultures	OA
<i>Asteraceae</i>	<i>Senecio yegua</i> (Colla) Cabr. var. <i>depilis</i> (Phil.) Cabr.	Whole plants	OA
<i>Asteraceae</i>	<i>Silphium integrifolium</i> Michx.	Leaves, inflorescences and rhizomes	OA
		Vegetative and generative organs	OA OA saponins
<i>Asteraceae</i>	<i>Silphium perfoliatum</i> Linn.	Aerial parts, or vegetative and generative organs	OA OA saponins
<i>Asteraceae</i>	<i>Silphium trifoliatum</i> Linn.	Vegetative and generative organs	OA OA saponins
<i>Asteraceae</i>	<i>Solidago Canadensis</i> Linn.	Flowers	OA OA saponins
<i>Asteraceae</i>	<i>Solidago gigantea</i> Ait	Flowers	OA OA saponins
<i>Asteraceae</i>	<i>Solidago virgaurea</i> Linn.	Flowers	OA
<i>Asteraceae</i>	<i>Sonchus oleraceus</i> Linn.	Whole plants	OA
<i>Asteraceae</i>	<i>Soroseris gillii</i> (S. Moore) Stebbins	Whole plants	OA
<i>Asteraceae</i>	<i>Synedrella nodiflora</i> (Linn.) Gaertn.	Whole plants	OA saponins
<i>Asteraceae</i>	<i>Taraxacum officinale</i> Weber ex F. H. Wigg.	Calli	OA
<i>Asteraceae</i>	<i>Taraxacum</i> Cass.	Whole plants	OA
<i>Asteraceae</i>	<i>Tridax procumbens</i> Linn.	Aerial parts	OA
<i>Asteraceae</i>	<i>Vernonia chunii</i> Chang	Whole plants	OA
<i>Asteraceae</i>	<i>Viguiera hypargyrea</i> Blake.	Roots	OA OA saponins
<i>Asteraceae</i>	<i>Wedelia calendulaceae</i> Less.	Leaves	OA saponins
<i>Asteraceae</i>	<i>Wedelia Paludosa</i> D.C.	Whole plants	OA
<i>Asteraceae</i>	<i>Xanthium mongolicum</i> Kitag.	Seeds	OA
<i>Asteraceae</i>	<i>Youngia japonica</i> (Linn.) DC.	Aerial parts	OA
<i>Asteraceae</i>	<i>Youngia koidzumiana</i> Kitamura	Whole plants	OA
<i>Asteraceae</i>	<i>Zexmenia bupthalmiflora</i> Lorentz.	Aerial parts	OA saponins

<i>Bangiaceae</i> Engler	<i>Porhya tenera</i> Kiellm.	Whole plants	OA
<i>Basellaceae</i> Raf.	<i>Anredera diffusa</i> (R. et P.) Soukup	Leaves and stem	OA saponins
<i>Basellaceae</i>	<i>Basella rubra</i> Linn.	Aerial parts	OA saponins
<i>Berberidaceae</i> Juss	<i>Berberis vulgaris</i> Linn.	Fruits	OA
<i>Berberidaceae</i>	<i>Caulophyllum thalictroides</i> (L.) Michaux	Underground parts	OA OA saponins
<i>Berberidaceae</i>	<i>Epimedium truncatum</i> H. R. Liang	Aerial parts	OA
<i>Berberidaceae</i>	<i>Epimedium wushanense</i> T. S. Ying	Roots	OA
<i>Berberidaceae</i>	<i>Leontice Kiangnanensis</i> P. L. Chiu	Tubers	OA saponins
<i>Betulaceae</i> Gray.	<i>Alus nepalensis</i> D. Don	Aerial parts	OA
<i>Betulaceae</i>	<i>Betula alba</i> Linn.	Barks and branches	OA
<i>Betulaceae</i>	<i>Betula cortex</i> aeth	Outer barks	OA
<i>Betulaceae</i>	<i>Betula costata</i> Trautv.	Barks	OA
<i>Betulaceae</i>	<i>Betula davurica</i> Pall.	Leaves	OA
<i>Betulaceae</i>	<i>Betula ermanii</i> Cham.	Leaves or barks	OA
<i>Betulaceae</i>	<i>Betula dahurica</i> Pall.	Barks and branch	OA
<i>Betulaceae</i>	<i>Betula manschurica</i> (Regel) Nakai (Art)	Outer barks	OA
<i>Betulaceae</i>	<i>Betula pendula</i> Roth.	Barks	OA
<i>Betulaceae</i>	<i>Betula platyphylla</i> Suk.	Barks	OA
<i>Betulaceae</i>	<i>Betula platyphylla</i> Suk. var. <i>japonica</i> (Sieb.) Hara	Leaves	OA
<i>Betulaceae</i>	<i>Betula pubescens</i> Ehrh.	Barks	OA
<i>Betulaceae</i>	<i>Betula schmidtii</i> Regel.	Outer barks of root barks	OA
<i>Betulaceae</i>	<i>Betula utilis</i> D. Don.	Outer barks	OA
<i>Bignoniaceae</i> Juss.	<i>Arrabidaea triplinervia</i> (Mart. ex DC.) Baill.	Leaves	OA
<i>Bignoniaceae</i>	<i>Astianthus viminalis</i> (H. B. Kunth.) Baill.	Leaves	OA
<i>Bignoniaceae</i>	<i>Campsis grandiflora</i> (Thunb.) K. Schum.	Flowers or leaves	OA
	<i>Campsis gradiflora</i> (Thunb.) Loisel.		
<i>Bignoniaceae</i>	<i>Cybistax antisiphylitica</i> Mart. ex DC.	Whole plants	OA
<i>Bignoniaceae</i>	<i>Heterophragma adenophyllum</i> (Wall. ex G. Don.) Seem. ex Benth. et Hook. f.	Whole plants	OA
<i>Bignoniaceae</i>	<i>Incarvillea arguta</i> (Royle) Royle	Roots or aerial parts	OA
<i>Bignoniaceae</i>	<i>Incarvillea delavayi</i> Bureau et Franchet.	Whole plants	OA
<i>Bignoniaceae</i>	<i>Incarvillea mairei</i> var. <i>grandiflora</i> (Wehrhahn) Grierson	Whole plants	OA
<i>Bignoniaceae</i>	<i>Jacaranda decurrens</i> Cham.	Whole plants	OA
<i>Bignoniaceae</i>	<i>Jacaranda mimosaeifolia</i> D. Don	Root barks	OA

<i>Bignoniaceae</i>	<i>Markhamia acuminata</i> (Klotzsch) K. Schum.	Leaves	OA
<i>Bignoniaceae</i>	<i>Newbouldia laevis</i> (P. Beauv.) Seeman ex Bureau.	Root barks or leaves	OA
<i>Bignoniaceae</i>	<i>Pyrostegia venusta</i> (Ker. –Gawl.) Miers.	Flowers	OA
<i>Bignoniaceae</i>	<i>Spathodea campanulata</i> P. Beauv.	Stem barks or leaves	OA
<i>Bignoniaceae</i>	<i>Tabebuia pentaphylla</i> (Linn.) Hemsl.	Stem barks and root heartwood	OA
<i>Bignoniaceae</i>	<i>Tecoma stans</i> (Linn.) Juss. ex Kunth	Calli	OA
<i>Bignoniaceae</i>	<i>Tecomella undulate</i> (Sw.) Seem.	Leaves	OA
<i>Bombacaceae</i> Kunth.	<i>Gossampinus malabarica</i> (L.) Merr.	Roots	OA
<i>Boraginaceae</i> Juss.	<i>Anchusa officinalis</i> L.	Whole plants	OA saponins
<i>Boraginaceae</i>	<i>Cordia piauhiensis</i> Fresen	Stems	OA saponins
<i>Boraginaceae</i>	<i>Cordia trichotoma</i> (Vell.) Arrab. ex Steudel.	Heart wood	OA
<i>Boraginaceae</i>	<i>Onosma paniculatum</i> Bur. et Franch.	Roots	OA
<i>Boraginaceae</i>	<i>Symphytum officinale</i> Linn.	Roots	OA saponins
<i>Boraginaceae</i>	<i>Tournefortia hartwegiana</i> Steud.	Aerial parts	OA
<i>Brassicaceae</i> Burnett	<i>Barbarea vulgaris</i> R. Br.	Whole plants	OA
		Leaves	OA saponins
<i>Brassicaceae</i>	<i>Coronopus didymus</i> (L.) Smith.	Whole plants	OA
<i>Burseraceae</i> Kunth.	<i>Boswellia serrata</i> Roxb.	Resin	OA
<i>Burseraceae</i>	<i>Canarium album</i> (Lour.) Raeusch	Fruits	OA
<i>Burseraceae</i>	<i>Canarium schweinfurthii</i> Engl.	Oleoresin	OA
<i>Burseraceae</i>	<i>Commiphora myrrha</i> (Nees) Engl.	Resin	OA
<i>Buxaceae</i> Dumort.	<i>Sarcococca coriacea</i> (Hook.) Sweet.	Flowers	OA
<i>Buxaceae</i>	<i>Sarcococca hookeriana</i> Baillon	Aerial parts	OA
<i>Cactaceae</i> Juss.	<i>Epithelantha micromeris</i> (Kuntze) Weber.	Cactus	OA
<i>Cactaceae</i>	<i>Heliabravoa chende</i> (Roland-Gosselin) Backeberg	Cactus	OA
<i>Cactaceae (Cactoideae)</i>	<i>Lemaireocereus aragonii</i> (F.A.C. Weber) Britton et Rose.	Whole plants	OA
	<i>Lemaireocereus pruinosus</i> (Otto) Britton et Rose		
	<i>Lemaireocereus stellatus</i> (Pfeiffer) Britton et Rose.		
<i>Cactaceae (Cactoideae)</i>	<i>Lemaireocereus chichipe</i> (Roland-Gosselin) Britton et Rose	Whole plants	OA
<i>Cactaceae (Cactoideae)</i>	<i>Lemaireocereus dumortieri</i> (Scheidw.) Britton et Rose	Whole plants	OA
<i>Cactaceae (Cactoideae)</i>	<i>Lemaireocereus griseus</i> (Haworth) Britton et Rose	Whole plants	OA
<i>Cactaceae (Cactoideae)</i>	<i>Lemaireocereus hystrix</i> (Haworth) Britton et Rose	Whole plants	OA

Cactaceae (Cactoideae)	<i>Lemaireocereus logispinus</i> (Haworth) Britton et Rose	Whole plants	OA
Cactaceae (Cactoideae)	<i>Lemaireocereus thurberi</i> (Engelm.) Britton et Rose	Whole plants	OA
Cactaceae	<i>Machaerocereus gummosus</i>	Whole plants	OA
Cactaceae [Cactoideae (Pachycereae)]	<i>Myrtillocactus cochal</i> (Orcutt) Britton et Rose.	Cactus	OA
Cactaceae (Pereskioideae)	<i>Pereskia grandifolia</i> Haw.	Whole plants	OA saponin
Cactaceae [Cactoideae (Rhipsalideae)]	<i>Rhipsalis mesembrianthemoides</i> (Haw.) Lem.	Cactus	OA
Cactaceae (Cactoideae)	<i>Trichocereus chiloensis</i> (Colla) Britton et Rose.	Whole plants	OA
Cactaceae (Cactoideae)	<i>Trichocereus cuzcoensis</i> Britton et Rose.	Whole plants	OA
Campanulaceae Juss.	<i>Adenophora stenanthina</i> (Ledeb.) Kitagawa	Roots	OA
Campanulaceae	<i>Campanula istriaca</i> Feer	Aerial parts	OA
Campanulaceae	<i>Codonopsis lanceolata</i> (Sieb. et Zucc.) Trautv.	Roots	OA
Campanulaceae (Lobelioideae)	<i>Lobelia clavata</i> E. Wimm.	Whole plants	OA
Campanulaceae	<i>Platycodon grandiflorum</i> (Jacq.) A. DC.	Roots	OA
Cannabaceae Endl.	<i>Cannabis sativa</i> L.	Whole plants	OA
Capparaceae Juss.	<i>Crateva religiosa</i> G. Forst.	Seeds	OA
Caprifoliaceae Juss.	<i>Lonicera angustifolia</i> Wall. ex DC.	Leaves	OA
Caprifoliaceae	<i>Lonicera bournei</i> Hemsl.	Flower buds	OA
Caprifoliaceae	<i>Lonicera japonica</i> Thunb.	Flowers buds	OA saponins
Caprifoliaceae	<i>Lonicera macranthoides</i> Hand.-Mazz.	Flower buds	OA saponins
Caprifoliaceae	<i>Lonicera nigra</i> Linn.	Berries	OA saponins
Caprifoliaceae	<i>Nardostachys chinensis</i> Batal.	Whole plants	OA
Caprifoliaceae	<i>Patrinia heterophylla</i> Bunge	Whole plants	OA
Caprifoliaceae	<i>Patrinia saniculaefolia</i> Hemsl.	Whole plants	OA OA saponins
Caprifoliaceae	<i>Patrinia scabiosaefolia</i> Fisch.	Whole plants	OA saponins
Caprifoliaceae	<i>Symphoricarpos albus</i> (Linn.) S. F. Blake	Leaves or fruits	OA
Caprifoliaceae	<i>Symphoricarpos racemosus</i> Hooker.	Leaves	OA
Cannabinaceae Endl.	<i>Humulus lupulus</i> Linn.	Tissue culture	OA
Caryocaraceae Szyszyl.	<i>Caryocar brasiliense</i> Cambess.	Leaves	OA
Caryocaraceae	<i>Caryocar microcarpum</i> Ducke.	Leaves	OA saponins
Caryophyllaceae Juss.	<i>Dianthus barbatus</i> Linn.	Aerial parts	OA
Caryophyllaceae	<i>Dianthus superbus</i> L.	Aerial parts	OA saponins
Caryophyllaceae	<i>Drymaria drummondii</i> Hook.	Whole plants	OA

<i>Caryophyllaceae</i>	<i>Gypsophila bernejoi</i> G. López	Roots	OA
<i>Caryophyllaceae</i>	<i>Gypsophila oldhamiana</i> Miq.	Roots	OA
<i>Caryophyllaceae</i>	<i>Gypsophila struthium</i> Loefl.	Roots	OA
<i>Caryophyllaceae</i>	<i>Silene succulenta</i> Forssk	Whole plants	OA
<i>Caryophyllaceae</i>	<i>Silene viscidula</i> Franch.	Whole plants	OA
<i>Caryophyllaceae</i>	<i>Spergularia arbuscula</i> (Gay) I.M.Johnst.	Whole plants	OA saponins
<i>Caryophyllaceae</i>	<i>Vaccaria segetalis</i> (Neck.) Garcke.	Seeds	OA saponins
<i>Casuarinaceae</i> R. Br.	<i>Casuarina equisetifolia</i> Linn.	Twigs and leaves	OA
<i>Cecropiaceae</i> C.C.	<i>Pourouma guianensis</i> Aubl.	Leaves	OA
Berg.			
<i>Celastraceae</i> R. Br.	<i>Cassine glauca</i> (Rottb.) Kuntze.	Whole plants	OA
<i>Celastraceae</i>	<i>Celastraceae</i> R. Br.	Whole plants	OA
<i>Celastraceae</i>	<i>Euonymus alatus</i> (Thunb.) Sieb.	Stems and leaves	OA
<i>Celastraceae</i>	<i>Euonymus bungeanus</i> Maxim.	Woody part of stems	OA
<i>Celastraceae</i>	<i>Gymnosporia variabilis</i> Loes	Aerial parts	OA
<i>Celastraceae</i>	<i>Maytenus boaria</i> Molina	Leaves and stems	OA
<i>Celastraceae</i>	<i>Microtropis triflora</i> Merr et Freem.	Stems	OA
<i>Celastraceae</i>	<i>Tripterygium hypoglaucum</i> (Levl.) Hutch.	Roots	OA
<i>Celastraceae</i>	<i>Tripterygium wilfordii</i> Hook. f.	Leaves and stems	OA
<i>Celastraceae</i>	<i>Zinowiewia integerrima</i> Turcz.	Root barks	OA
<i>Chloranthaceae</i> R. Br.	<i>Sarcandra glabra</i> (Thunb.) Nakai	Roots	OA
ex Sims			
<i>Chrysobalanaceae</i> R.	<i>Chrysobalanus icaco</i> Linn.	Leaves	OA
Br.			
<i>Chrysobalanaceae</i>	<i>Couepia paraensis</i> (Mart. et Zucc.) Benth.	Whole plants	OA
<i>Chrysobalanaceae</i>	<i>Couepia polyandra</i> (Kunth) Rose	Whole plants	OA
<i>Chrysobalanaceae</i>	<i>Couepia ulei</i> Pilger	Stems	OA
<i>Chrysobalanaceae</i>	<i>Licania arianaeae</i> Prance	Leaves and wood	OA
<i>Chrysobalanaceae</i>	<i>Licania licaniaeflora</i> (Sagot) Blake	Leaves	OA
<i>Chrysobalanaceae</i>	<i>Licania pittieri</i> Prance	Leaves	OA
<i>Chrysobalanaceae</i>	<i>Licania tomentosa</i> (Benth.) Fritsch.	Leaves and fruits	OA
<i>Chrysomelidae</i> Latreille	<i>Platyphora kollari</i> Baly	Leaves	OA
			OA saponins
<i>Chrysomelidae</i>	<i>Platyphora opima</i> Linn.	Whole plants	OA saponins
<i>Clusiaceae</i> Lindl.	<i>Calophyllum inophyllum</i> Linn.	Stems and leaves	OA
<i>Clusiaceae</i>	<i>Clusia hilariana</i> Schlecht.	Whole plants	OA
<i>(Clusioideae)</i>			

<i>Clusiaceae</i> (<i>Clusioideae</i>)	<i>Clusia octopetala</i> Cuatrec.	Fruit	OA
<i>Clusiaceae</i> (<i>Clusioideae</i>)	<i>Clusia rosea</i> Jacq.	Whole plants	OA
<i>Clusiaceae</i> (<i>Clusioideae</i>)	<i>Garcinia polyantha</i> Oliv.	Stem barks	OA
<i>Clusiaceae</i> (<i>Clusioideae</i>)	<i>Garcinia vilersiana</i> Pierre.	Barks	OA
<i>Clusiaceae</i> (<i>Clusioideae</i>)	<i>Garcinia xanthochymus</i>	Whole plants	OA
<i>Clusiaceae</i> (<i>Hypericoideae</i>)	<i>Hypericum geminiflorum</i> Hemsley	Roots	OA
<i>Clusiaceae</i> (<i>Hypericoideae</i>)	<i>Hypericum monogynum</i> Linn.	Aerial parts	OA
<i>Clusiaceae</i> (<i>Hypericoideae</i>)	<i>Hypericum patulum</i> Thunb. ex Murray	Cell suspension cultures	OA
<i>Clusiaceae</i> (<i>Hypericoideae</i>)	<i>Hypericum wightianum</i> Wallex Wight et Arn.	Whole plants	OA
<i>Clusiaceae</i> [<i>Kielmeyeroideae</i> (<i>Calophylleae</i>)]	<i>Mesua myrtifolia</i> (Baill.) Kosterm.	Timber	OA
<i>Clusiaceae</i>	<i>Rheedia gardneriana</i> Planch. et Triana.	Fruits	OA
<i>Clusiaceae</i>	<i>Symphonia globulifera</i> Linn. f.	Seed shells	OA
<i>Cochlospermaceae</i> Planch.	<i>Cochlospermum angolense</i> Welw. ex Oliv.	Roots	OA
<i>Combretaceae</i> R. Br.	<i>Combretum olivaeforme</i> Chao	Leaves	OA
<i>Combretaceae</i>	<i>Terminalia alata</i> Heyne ex Roth.	Root barks or heartwood	OA
<i>Combretaceae</i>	<i>Terminalia arjuna</i> Linn.	Root barks or heartwood	OA
<i>Combretaceae</i>	<i>Terminalia catappa</i> Linn.	Barks	OA
<i>Combretaceae</i>	<i>Terminalia glabrescens</i> Mart.	Leaves	OA
<i>Combretaceae</i>	<i>Terminalia myriocarpa</i> Huerck & Muell.Arg.	Barks	OA
<i>Combretaceae</i>	<i>Terminalia pallida</i> Brandis.	Whole plants	OA
<i>Combretaceae</i>	<i>Terminalia superba</i> Engl. & Diels	Stem barks	OA
<i>Combretaceae</i>	<i>Terminalia tomentosa</i> Wight et Arn	Heart wood or timber	OA
<i>Convolvulaceae</i> Juss.	<i>Argyrea argentea</i> (Roxb.) Choisy.	Aerial parts	OA
<i>Convolvulaceae</i>	<i>Convolvulus dorycnium</i> Linn.	Aerial parts	OA

<i>Convolvulaceae</i>	<i>Convolvulus hystrix</i> Vahl.	Whole plants	OA
<i>Convolvulaceae</i>	<i>Cuscuta reflexa</i> Roxb.	Whole plants	OA
<i>Convolvulaceae</i>	<i>Evolvulus nummularius</i> (Linn.) Linn.	Aerial parts	OA
<i>Convolvulaceae</i>	<i>Ipomoea batatas</i> (L.) Lam.	Tubers	OA saponins
<i>Coriariaceae</i> DC.	<i>Coriaria nepalensis</i> Wall.	Aerial parts	OA
<i>Cornaceae</i> Dumort.	<i>Cornus capitata</i> Wall.	Stems	OA
<i>Cornaceae</i>	<i>Cornus officinalis</i> Sieb. et Zucc.	Fruits or seeds	OA
<i>Cornaceae</i> (<i>Nyssaceae</i>)	<i>Nyssa ogeche</i> Bartram ex Marshall.	Aerial parts	OA
<i>Crassulaceae</i> J. St.-Hill.	<i>Jovibarba sobolifera</i> (Sims.) Opiz	Leaves	OA
<i>Crassulaceae</i>	<i>Orostachys erudescens</i> auct. non (Maxim.) Ohwi	Whole plants	OA
<i>Crassulaceae</i>	<i>Sedum aizoon</i> Linn.	Underground portions	OA
	<i>Sedum hybridum</i> Linn.		
	<i>Sedum purpureum</i> (Linn) Schultes		
<i>Cucurbitaceae</i> Juss.	<i>Actinostemma lobatum</i> Maxim	Seeds	OA saponins
<i>Cucurbitaceae</i>	<i>Cucumis trigonus</i> Roxb. (Kachri)	Whole plants	OA
<i>Cucurbitaceae</i>	<i>Ecballium elaterium</i> (Linn.) A. Rich.	Fruits	OA saponins
<i>Cucurbitaceae</i> [<i>Zanonoioideae</i> (<i>Gomphogyninae</i>)	<i>Gynostemma pentaphyllum</i> (Thunb.) Makino	Whole plants	OA
<i>Cucurbitaceae</i>	<i>Hemsleya amabilis</i> Diels	Rhizomes or stems	OA OA saponins
<i>Cucurbitaceae</i>	<i>Hemsleya chenensis</i> Cogn.	Roots	OA saponins
<i>Cucurbitaceae</i>	<i>Hemsleya emeiensis</i> L. T. Shen et W. J. Chang	Tubers	OA saponins
<i>Cucurbitaceae</i>	<i>Hemsleya gigantea</i> W. J. Chang	Roots	OA saponins
<i>Cucurbitaceae</i>	<i>Hemsleya graciliflora</i> (Harms) Cogniaux.	Fruits or rhizomes	OA saponins
<i>Cucurbitaceae</i>	<i>Hemsleya macrosperma</i> C. Y. Wu	Rhizomes	OA saponins
		Stems	OA
<i>Cucurbitaceae</i>	<i>Hemsleya pengxianensis</i> W. J. Chang	Tubers	OA saponins
<i>Cucurbitaceae</i>	<i>Hemsleya pengxianensis</i> var. <i>gulinensis</i> L. T. Shen et W. J. Chang	Roots	OA saponins
<i>Cucurbitaceae</i>	<i>Hemsleya mitrata</i> C. Y. Wu	Stems	OA
<i>Cucurbitaceae</i>	<i>Hemsleya sinesis</i> Cogniaux	Rhizomes	OA saponins
<i>Cucurbitaceae</i> (<i>Cucurbitoideae</i>)	<i>Lagenaria breviflora</i> (Benth.) Roberty	Fruit pulp	OA OA saponins

<i>Cucurbitaceae</i>	<i>Luffa acutangula</i> (Linn.) Roxb.	Seeds	OA OA saponins
		Fruits and leaves	OA saponins
<i>Cucurbitaceae</i>	<i>Luffa aegyptica</i> Miller.	Seeds	OA OA saponins
		Fruits and leaves	OA saponins
<i>Cucurbitaceae</i>	<i>Luffa cylindrica</i> (Linn.) M. Roem.	Roots	OA
		Flowers	OA saponins
		Fruit and leaves	OA saponins
<i>Cucurbitaceae</i>	<i>Luffa echinata</i> Roxb.	Fruits	OA
<i>Cucurbitaceae</i>	<i>Luffa echinata</i> Roxb. var. <i>longistyla</i> Edgew.	Seeds	OA
<i>Cucurbitaceae</i>	<i>Luffa graveolens</i> Roxb.	Seeds or fruits and leaves	OA OA saponins
<i>Cucurbitaceae</i>	<i>Melothria indica</i> Lour.	Roots	OA
<i>Cucurbitaceae</i>	<i>Momordica accharantia</i> spp. Fam.	Whole plants	OA
<i>Cucurbitaceae</i>	<i>Momordica balsamina</i> Linn.	Whole plants	OA
<i>Cucurbitaceae</i>	<i>Momordica cochinchinensis</i> (Lour.) Spreng.	Root or tubers	OA saponins
		Seeds	OA
<i>Cucurbitaceae</i>	<i>Momordica dioica</i> Roxb. ex Willd.	Rhizomes	OA
<i>Cucurbitaceae</i>	<i>Trichosanthes cucumerina</i> Linn.	Whole plants	OA
<i>Curculionidae</i> Latreille (Dryophthorinae)	<i>Sitophilus oryzae</i> Linn.	Aerial parts	OA
(Animalia)			
<i>Cyatheaceae</i> Kaulfuss.	<i>Cyathea gigantea</i> (Wall. ex Hook.) Holtt.	Whole plants	OA
<i>Cynomoriaceae</i> Lindl.	<i>Cynomorium songaricum</i> Rupr.	Stems	OA
<i>Cyperaceae</i> Juss.	<i>Cyperus capitatus</i>	Rhizomes	OA
<i>Cyperaceae</i>	<i>Cyperus rotundus</i> Vandelli	Tubers, rhizomes	OA OA saponins
<i>Datisceae</i> Dumort.	<i>Datisca cannabina</i> Linn.	Aerial parts	OA
<i>Dipsacaceae</i> Juss.	<i>Cephalaria gigantea</i> (Ledeb.) Bobrov	Aerial parts	OA
		Roots	OA saponins

<i>Dipsacaceae</i>	<i>Cephalaria kotschyi</i> Boiss. et Hohen.	Flowers and roots	OA
<i>Dipsacaceae</i>	<i>Cephalaria nachiczewanica</i> Bobr.	Flowers and roots	OA
<i>Dipsacaceae</i>	<i>Cephalaria transsylvanica</i> (Linn.) Roem. et Schult.	Stems	OA
<i>Dipsacaceae</i>	<i>Cephalaria velutina</i> Bobrov.	Flowers	OA saponins
<i>Dipsacaceae</i>	<i>Dipsacus asper</i> Wall. ex DC.	Roots	OA OA saponins
<i>Dipsacaceae</i>	<i>Dipsacus japonicus</i> Miq.	Roots	OA saponins
<i>Dipsacaceae</i>	<i>Dipsacus laciniatus</i> Linn.	Roots	OA
<i>Dipsacaceae</i>	<i>Knautia integrifolia</i> (Linn.) Bertol Var. <i>Bidens</i> (Sm.) Barbos.	Roots	OA saponins
<i>Dipsacaceae</i>	<i>Morina nepalensis</i> D. Don.	Whole plants	OA saponins
<i>Dipsacaceae</i>	<i>Morina nepalensis</i> D. Don. var. <i>alba</i> (Hand.-Mazz.) Y. C. Tang	Whole plants	OA saponins
<i>Dipsacaceae</i>	<i>Pterocephalus bretschnidri</i> Sylvestris	Roots	OA OA saponins
<i>Dipsacaceae</i>	<i>Pterocephalus hookeri</i> (C. B. Clarke) Hoeck	Whole plants	OA OA saponins
<i>Dipsacaceae</i>	<i>Scabiosa bipinnata</i> C. Koch.	Roots and aerial parts	OA
<i>Dipsacaceae</i>	<i>Scabiosa caucasica</i> M. Bieb.	Whole plants	OA
<i>Dipsacaceae</i>	<i>Scabiosa ochroleuca</i> Linn.	Flowers and roots	OA
<i>Dipsacaceae</i>	<i>Scabiosa soongorica</i> Roshev.	Underground parts	OA
		Whole plants	OA saponins
<i>Dipsacaceae</i>	<i>Scabiosa micrantha</i> Desf.	Roots	OA
	<i>Scabiosa oliveri</i> Coult.		
	<i>Scabiosa ochroleuca</i> Linn.		
<i>Dipterocarpaceae</i>	<i>Dryobalanops aromatica</i> C. F. Gaertn.	Resins	OA
	Blume		
<i>Dipterocarpaceae</i>	<i>Hopea pubescens</i> Ridl.	Resins	OA
<i>Dipterocarpaceae</i>	<i>Shorea robusta</i> Roth.	Barks	OA
<i>Ebenaceae</i> Gürke	<i>Diospyros glandulosa</i> Lace	Stems	OA
<i>Ebenaceae</i>	<i>Diospyros kaki</i> Thunb.	Leaves, calyx or peel of fruits	OA
<i>Ebenaceae</i>	<i>Diospyros malanonilau</i> Linn.	Heartwood	OA
<i>Ebenaceae</i>	<i>Diospyros mollis</i> Griff	Fruit	OA
<i>Ebenaceae</i>	<i>Diospyros montana</i> Roxb.	Fruit pulp	OA

<i>Ebenaceae</i>	<i>Diospyros peregrina</i> (Gaertn.) Gürke	Leaves or barks	OA
<i>Ebenaceae</i>	<i>Diospyros zombensis</i> (Burt) White	Root barks	OA saponins
<i>Ebenaceae</i>	<i>Euclea crispa</i> (Thunb.) Gürke	Whole plants	OA
<i>Ebenaceae</i>	<i>Diospyros hirsuta</i> Linn.	Barks and timber	OA
	<i>D. moonii</i> Thwaites		
	<i>D. quaesita</i> Thwaites		
	<i>D. spinescens</i> (Less.) Cabrera		
	<i>D. thwaitesii</i> Beddome		
	<i>D. walkeri</i> (Wight) Guerke		
<i>Elaeagnaceae</i> Juss.	<i>Elaeagnus bockii</i> Diels	Rhizomes	OA
<i>Elaeagnaceae</i>	<i>Elaeagnus glabra</i> Thunb.	Leaves	OA
<i>Elaeagnaceae</i>	<i>Elaeagnus pungens</i> Thunb.	Leaves	OA
<i>Elaeagnaceae</i>	<i>Hippophae rhamnoides</i> Linn.	Pericarp of fruits or branch barks	OA
<i>Elaeagnaceae</i>	<i>Hippophae rhamnoides</i> L. subsp. <i>terkestanica</i> Rousi in. Ann.	Fruits	OA
<i>Equisetaceae</i> Michx. ex DC.	<i>Equisetum arvense</i> Linn.	Whole plants	OA
<i>Euphorbiaceae</i> Juss. (<i>Crotonoideae</i>)	<i>Endospermum chinense</i> Benth.	Stem barks	OA
<i>Euphorbiaceae</i>	<i>Euphorbia esula</i> Lamarck	Whole plants	OA
<i>Euphorbiaceae</i>	<i>Euphorbia geniculata</i> Ortega	Whole plants	OA saponins
<i>Euphorbiaceae</i>	<i>Euphorbia latifolia</i> C. A. Meyer ex Lebeb.	Whole plants	OA
<i>Euphorbiaceae</i>	<i>Euphorbia paralias</i> Linn.	Whole plants	OA
<i>Euphorbiaceae</i>	<i>Euphorbia petiolata</i> Banks ex Soland	Whole plants	OA
<i>Euphorbiaceae</i>	<i>Euphorbia portlandica</i> Linn.	Whole plants	OA
<i>Euphorbiaceae</i>	<i>Euphorbia segetalis</i> Linn.	Whole plants	OA
<i>Euphorbiaceae</i>	<i>Euphorbia dracunculoides</i> Lamk.	Fruit or seeds	OA
[<i>Euphorbioideae</i> (<i>Euphorbieae</i>)]			
<i>Euphorbiaceae</i> (<i>Crotonoideae</i>)	<i>Jatropha curcas</i> Linn.	Whole plants	OA saponins
<i>Euphorbiaceae</i>	<i>Melanolepis multiglandulosa</i> (Reinw. ex Blume) Reich. f.	Roots	OA

[Acalyphoideae	et Zoll.		
(Chrozophoreae)]			
<i>Euphorbiaceae</i>	<i>Neoboutonia glabrescens</i> Prain.	Stem barks	OA
<i>Eupteleaceae</i> K. Wilh.	<i>Euptelea polyandra</i> Sieb. et Zucc.	Barks	OA
<i>Ericaceae</i> Juss.	<i>Arctostaphylos uva-ursi</i> (L.) Spreng.	Roots	OA
<i>Ericaceae</i>	<i>Cassiope selagnoides</i> H. F. et Thoms.	Whole tree	OA
<i>Ericaceae</i>	<i>Craibiodendron henryi</i> W. W. Smith.	Roots	OA
<i>Ericaceae</i>	<i>Epigaea asiatica</i> Maxim.	Whole plants	OA
<i>Ericaceae</i>	<i>Gaultheria nummularioides</i> D. Don	Whole plants	OA
<i>Ericaceae</i>	<i>Leucothoe grayana</i> Maximowicz	Leaves and stems	OA
<i>Ericaceae</i>	<i>Loiseleuria procumbens</i> (Linn.) Desv. f. var. <i>Watanabeana</i> Yanagita	Whole plants	OA saponins
<i>Ericaceae</i>	<i>Loiseleuria procumbens</i> (Linn.) Desvaux	Whole plants	OA saponins
<i>Ericaceae</i>	<i>Lyonia ovalifolia</i> (Wallich) Drude	Leaves	OA
<i>Ericaceae</i>	<i>Lyonia ovalifolia</i> (Wallich) Drude var. <i>elliptica</i> (Siebold et Zuccarini) Hand.-Mazzetti	Fruit, flowers or red shoots	OA
<i>Ericaceae</i>	<i>Oxycoccus quadripetalus</i> Gilib.	Whole plants	OA saponins
<i>Ericaceae</i>	<i>Pieris japonica</i> (Thunb.) D. Don ex G. Don	Barks	OA acetate
		Flowers	OA
<i>Ericaceae</i>	<i>Pieris taiwanensis</i> Hayata.	Fruits	OA
<i>Ericaceae</i>	<i>Pirola japonica</i> Siebold	Leaves	OA
<i>Ericaceae</i>	<i>Rhododendron adamsii</i> Rehder.	Leaves	OA
<i>Ericaceae</i>	<i>Rhododendron anthopogonoide</i> Maxim.	Stem and leaves	OA
<i>Ericaceae</i>	<i>Rhododendron barbatum</i> Wallich ex. D. Don.	Stems or roots	OA
<i>Ericaceae</i>	<i>Rhododendron brachycarpum</i> D. Don.	Leaves	OA
<i>Ericaceae</i>	<i>Rhododendron caucasicum</i> Pall.	Leaves	OA
<i>Ericaceae</i>	<i>Rhododendron concinnum</i> Hemsley	Whole plants	OA
<i>Ericaceae</i>	<i>Rhododendron dauricum</i> L.	Leaves	OA
<i>Ericaceae</i>	<i>Rhododendron irroratum</i> Franch.	Flowers	OA
<i>Ericaceae</i>	<i>Rhododendron linearifolium</i> Siebold et Zucc. var. <i>macrosepalum</i> (Maxim.) Makino	Buds	OA
<i>Ericaceae</i>	<i>Rhododendron luteum</i> Sweet.	Leaves	OA
<i>Ericaceae</i>	<i>Rhododendron macrosepalum</i> DC.	Buds	OA
<i>Ericaceae</i>	<i>Rhododendron metternichii</i> Sieb. et Zucc.	Whole plants	OA
<i>Ericaceae</i>	<i>Rhododendron purdomii</i> Rehd. et Wils.	Whole plants	OA
<i>Ericaceae</i>	<i>Rhododendron adamsii</i> Rehder.	Shoots or stem barks	OA

	<i>Rhododendron aureum</i> Georgi		
	<i>Rhododendron dahuricum</i> Linn. ex Dippel		
	<i>Rhododendron kotschyi</i> Simonk.		
	<i>Rhododendron mucronulatum</i> Turcz.		
	<i>Rhododendron Schlippenbachii</i> Maxim.		
<i>Ericaceae</i>	<i>Rhododendron camtschaticum</i> Pall.	Stem barks	OA
	<i>Rhododendron fauriei</i> Franch.		
	<i>Rhododendron ledebourii</i> Pojark.		
	<i>Rhododendron parvifolium</i> Adams.		
	<i>Rhododendron ponticum</i> Linn.		
	<i>Rhododendron sichotense</i> Pojark.		
	<i>Rhododendron tschonoskii</i> Maxim.		
	<i>Rhododendron ungemii</i> Trautv.		
<i>Ericaceae</i>	<i>Vaccinium bracteatum</i> Thunb.	Flowers	OA
<i>Ericaceae</i>	<i>Vaccinium corymbosum</i> Linn.	Leaves and callus biomass	OA
<i>Ericaceae</i>	<i>Vaccinium macrocarpon</i> Ait.	Fruits or pulp	OA
<i>Ericaceae</i>	<i>Vaccinium myrtillus</i> Linn.	Whole plants	OA
<i>Ericaceae</i>	<i>Vaccinium uliginosum</i> Linn.	Fresh leaves	OA
<i>Ericaceae</i>	<i>Zenobia pulverulenta</i> (Bartram ex Willd.) Pollard.	Whole plants	OA
<i>Euphorbiaceae</i> Juss	<i>Cordia piauhiensis</i> Ule.	Stems	OA saponins
<i>Euphorbiaceae</i>	<i>Drypetes inaequalis</i> Hutch.	Stems and fruits	OA saponins
<i>Euphorbiaceae</i>	<i>Drypetes tessmanniana</i> (Pax) Pax & K.Hoffm.	Stem barks	OA
<i>Euphorbiaceae</i>	<i>Euphorbia abyssinica</i> J. F. Gmel.	Latex	OA
<i>Euphorbiaceae</i>	<i>Euphorbia latifolia</i> Meyer ex Ledeb.	Whole plants	OA
<i>Euphorbiaceae</i>	<i>Excoecaria agallocha</i> Linn.	Stems	OA

<i>Euphorbiaceae</i>	<i>Vernicia Fordii</i> (Hemsl.) Airy Shaw	Leaves and roots	OA
<i>Fabaceae</i> Lindl.	<i>Abrus cantoniensis</i> Hance	Whole plants	OA saponins
<i>Fabaceae</i>	<i>Abrus mollis</i> Hance	Whole plants	OA
<i>Fabaceae</i>	<i>Abrus precatorius</i> L.	Seeds	OA saponins
<i>Fabaceae</i>	<i>Acacia nilotica</i> L.	Pods and stems	OA saponins
<i>Fabaceae</i>	<i>Acacia pulchella</i> R. Br.	Roots	OA saponins
<i>Fabaceae</i>	<i>Acacia victoriae</i> Benth.	Whole plants	OA
<i>Fabaceae</i>	<i>Adenanthera pavonina</i> L.	Roots, or stems and Leaves	OA
		Barks	OA saponins
<i>Fabaceae</i>	<i>Albizia chinensis</i> (Osbeck.) Merr.	Stem barks	OA saponins
<i>Fabaceae</i>	<i>Albizia gummifera</i> (J. F. Gmelin) C. A. Smith.	Stem barks	OA saponins
<i>Fabaceae</i>	<i>Albizia julibrissin</i> Durazz.	Stem barks	OA
<i>Fabaceae</i>	<i>Albizia lebbek</i> (L.) Benth.	Seeds or pericarps	OA OA saponins
<i>Fabaceae</i>	<i>Albizia lucida</i> (L.) Benth.	Seeds	OA
<i>Fabaceae</i>	<i>Albizia procera</i> (L.) Benth.	Seeds	OA saponins
		Roots and leaves	OA
<i>Fabaceae</i>	<i>Astragalus bungeanus</i> Boiss.	Leaves and stems	OA saponins
<i>Fabaceae</i>	<i>Astragalus unifoliolatus</i> Bunge.	Whole plants	OA
<i>Fabaceae</i>	<i>Bauhinia purpurea</i> Linn.	Barks	OA
<i>(Caesalpinioideae)</i>			
<i>Fabaceae</i>	<i>Caesalpinia decapetala</i> (Roth) Alston.	Whole plants	OA
<i>(Caesalpinioideae)</i>			
<i>Fabaceae</i>	<i>Caesalpinia paraguariensis</i> Burk	Whole plants	OA saponins
<i>(Caesalpinioideae)</i>			
<i>Fabaceae</i>	<i>Campylotropis hirtella</i> (Franch.) Schindl.	Roots	OA
<i>Fabaceae</i>	<i>Caragana sinica</i> (Buc'hoz) Rehd.	Roots	OA OA saponins
<i>Fabaceae</i>	<i>Cassia laevigata</i> Willd.	Flowers	OA saponins
<i>(Caesalpinaceae)</i>			
<i>Fabaceae</i>	<i>Cassia mimosoides</i> Linn.	Whole plants	OA
<i>Fabaceae</i>	<i>Cassia siamea</i> Lamk.	Flowers or stem	OA
<i>(Caesalpinaceae)</i>			
		barks	
<i>Fagaceae</i>	<i>Castanea mollissima</i> Blume	Seeds or shell	OA

<i>Fabaceae (Faboideae)</i>	<i>Dalbergia malabarica</i> Prain.	Roots	OA
<i>Fabaceae (Faboideae)</i>	<i>Dalbergia rubiginosa</i> Roxb.	Roots	OA
<i>Fabaceae (Faboideae)</i>	<i>Dalbergia sissooides</i> Graham ex. Wight et Arn.	Leaves	OA
<i>Fabaceae</i>	<i>Derris trifoliata</i> Lour.	Leaves	OA
<i>Fabaceae</i>	<i>Dialium guineense</i> Willd.	Fruit and leaves	OA saponins
<i>Fabaceae (Faboideae)</i>	<i>Dioclea lasiophylla</i> Mart. ex Benth.	Stems	OA OA saponins
<i>Fabaceae (Faboideae)</i>	<i>Dolichos lablab</i> Linn.	Seeds	OA saponins
<i>Fabaceae</i>	<i>Echinosophora koreensis</i> Nakai	Stems	OA
<i>Fabaceae</i> (<i>Mimosoideae</i>)	<i>Entada phaseoloides</i> (Linn.) Merr.	Barks	OA Saponins
<i>Fabaceae</i> (<i>Mimosoideae</i>)	<i>Entada scandens</i> (Linn.) Benth.	Whole plants	OA
<i>Fabaceae (Faboideae)</i>	<i>Erythrina arborescens</i> Roxb.	Heartwood	OA
<i>Fabaceae (Faboideae)</i>	<i>Erythrina crista-galli</i> Linn.	Stems or leaves	OA
<i>Fabaceae (Faboideae)</i>	<i>Erythrina indica</i> Lam.	Stem barks	OA
<i>Fabaceae (Faboideae)</i>	<i>Erythrina senegalensis</i> Wandji	Stem barks	OA
<i>Fabaceae (Faboideae)</i>	<i>Erythrina sigmoidea</i> Hua	Stems	OA
<i>Fabaceae (Faboideae)</i>	<i>Erythrina variegata</i> Linn.	Stem barks	OA
<i>Fabaceae</i>	<i>Eysenhardtia platycarpa</i> Pennell et Safford	Branches and leaves	OA
<i>Fabaceae</i>	<i>Flemingia fluminalis</i> Clarke ex Prain	Whole plants	OA
<i>Fabaceae</i> (<i>Caesalpiniaceae</i>)	<i>Gleditschia officinalis</i> L.	Pods	OA saponins
<i>Fabaceae</i> (<i>Caesalpiniaceae</i>)	<i>Gleditschia triacanthos</i> Linn.	Pods or fruits and leaves	OA OA saponins
<i>Fabaceae</i> (<i>Caesalpinioideae</i>)	<i>Gleditsia sinensis</i> Lam.	Fruits	OA OA saponins
<i>Fabaceae (Faboideae)</i>	<i>Glycyrrhiza yunnanensis</i> Cheng f. et L. K. Dai ex P. C. Li	Roots	OA
<i>Fabaceae</i>	<i>Heylandia latebrosa</i> (Linn.) DC.	Leaves	OA saponins
<i>Fabaceae</i>	<i>Indigofera carlesii</i> Craib <i>Indigofera kirilowii</i> Maxim. ex Palibin	Roots	OA saponins
<i>Fabaceae</i>	<i>Lespedeza virgata</i> (Thunb.) DC.	Whole plants	OA
<i>Fagaceae</i>	<i>Lithocarpus polystachyus</i> Rehd.	Leaves	OA
<i>Fabaceae</i>	<i>Lonchocarpus cyanescens</i> (Schumacher. et Thonn.) Benth.	Roots	OA
<i>Fabaceae (Faboideae)</i>	<i>Lotus corniculatus</i> Linn.	Whole plants	OA
<i>Fabaceae</i>	<i>Lotus corniculatus</i> var. Sao Gabriel	Whole plants	OA

<i>Fabaceae</i>	<i>Lotus garcinii</i> DC.	Whole plants	OA
<i>Fabaceae</i>	<i>Lotus lalambensis</i> Schweinf.	Aerial parts	OA
<i>Fabaceae</i>	<i>Lotus ornithopodioides</i> L.	Aerial parts	OA
<i>Fabaceae</i>	<i>Medicago arabica</i> (L.)Huds	Aerial parts	OA saponins
<i>Fabaceae (Faboideae)</i>	<i>Medicago hybrida</i> (Pourret) Trautv.	Roots	OA OA saponins
<i>Fabaceae [Faboideae (Trifolieae)]</i>	<i>Medicago sativa</i> Linn.	Root	OA saponins
<i>Fabaceae</i>	<i>Melilotus officinalis</i> (L.) Pallas.	Whole plants	OA
<i>Fabaceae</i>	<i>Melilotus suaveoolens</i> Ledeb	Whole plants	OA
<i>Fabaceae</i>	<i>Milletia laurentii</i> De Wild.	Whole plants	OA saponins
<i>Fabaceae</i>	<i>Milletia pachycarpa</i> Benth.	Roots	OA
<i>Fabaceae (Mimosoideae)</i>	<i>Mimosa tenuiflora</i> (Willd.) Poir.	Barks	OA saponins
<i>Fabaceae (Caesalpinioideae)</i>	<i>Mora gonggrijpii</i> (Kleinhoonte) Sandw.	Wood	OA
<i>Fabaceae [Faboideae (Sophoreae)]</i>	<i>Myroxyton balsamum</i> (Linn.) Harms.	Whole plants	OA
<i>Fabaceae (Mimosoideae)</i>	<i>Parkia speciosa</i> hort. ex Hassk.	Whole plants	OA
<i>Fabaceae [Mimosoideae (Mimoseae)]</i>	<i>Prosopis</i> Linn.	Seeds	OA
<i>Fabaceae (Mimosoideae (Mimosaceae))</i>	<i>Pentaclethra eetveldeana</i> De Wild. et Th. Durand.	Seeds	OA
<i>Fabaceae (Caesalpinioideae)</i>	<i>Perocarpus santalinus</i> Linn.	Heartwood	OA
<i>Fabaceae [Faboideae (Phaseoleae)]</i>	<i>Phaseolus angularis</i> (Willd.) W. F. Wight.	Mature seeds	OA
<i>Fabaceae [Mimosoideae (Mimoseae)]</i>	<i>Piptadeniastrum africanum</i> (Hook. f.) Brenan	Barks	OA
<i>Fabaceae [Papilionoidea (Vicieae)]</i>	<i>Pisum sativum</i> Linn.	Stems	OA saponins
<i>Fabaceae (Mimosoideae)</i>	<i>Pithecellobium arboreum</i> (L.) Urban.	Whole plants	OA saponins

<i>Fabaceae</i> (<i>Mimosoideae</i>)	<i>Pithecellobium cubense</i> Bisse.	Whole plants	OA saponins
<i>Fabaceae</i> (<i>Mimosoideae</i>)	<i>Pithecellobium dulce</i> (Roxb.) Benth.	Seeds	OA saponins
<i>Fabaceae</i> (<i>Mimosoideae</i>)	<i>Pithecellobium jiringa</i> (W. Jack) Prain ex King	Whole plants	OA
<i>Fabaceae</i> (<i>Mimosoideae</i>)	<i>Pithecellobium racemosum</i> Ducke	Barks	OA saponins
<i>Fabaceae</i>	<i>Podocarpium podocarpum</i> (DC.) Yang et Huang var. <i>oxyphyllum</i> (DC.) Yang et Huang	Whole plants	OA
<i>Fabaceae</i> [<i>Mimosoideae</i> (<i>Mimoseae</i>)]	<i>Prosopis glandulosa</i> Torrey.	Stems or flowers	OA
<i>Fabaceae</i>	<i>Psorothamnus arborescens</i> (Torr. ex A. Gray) Barneby	Roots	OA
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Dalbergieae</i>)]	<i>Pterocarpus marsupium</i> Roxb.	Heartwood	OA
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Dalbergieae</i>)]	<i>Pterocarpus dalbergioides</i> Benth.	Heartwood	OA
	<i>Pterocarpus macrocarpus</i> Kurz.		
	<i>Pterocarpus soyauxii</i> Taubert		
	<i>Pterocarpus tinctorius</i> (Baker) Welw.		
<i>Fabaceae</i>	<i>Pueraria lobata</i> (Willd.) Ohwi.	Roots or flowers	OA saponins
<i>Fabaceae</i>	<i>Pueraria peduncularis</i> (Grah. ex Benth.) Benth.	Whole plants	OA OA saponins
<i>Fagaceae</i>	<i>Quercus variabilis</i> Blume	Stems and leaves	OA
<i>Fabaceae</i> (<i>Mimosoideae</i>)	<i>Samanea saman</i> (Jacq.) Merr.	Whole plants	OA saponins
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Robinieae</i>)]	<i>Sesbania aculeata</i> (Linn.) Per.	Seeds	OA
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Robinieae</i>)]	<i>Sesbania aegyptica</i> (Poir.) Pers.	Whole plants	OA
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Robinieae</i>)]	<i>Sesbania drummondii</i> (Rydb.) Cory.	Seed	OA
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Robinieae</i>)]	<i>Sesbania grandiflora</i> (L.) Poiret	Seeds	OA saponins
		Leaves	OA

<i>Fabaceae</i> [<i>Faboideae</i> (<i>Robinieae</i>)]	<i>Sesbania punicea</i> (Cav.) Benth.	Seed	OA
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Robinieae</i>)]	<i>Sesbania sesban</i> (Linn.) Merrill.	Roots	OA
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Robinieae</i>)]	<i>Sesbania speciosa</i> Taub.	Aerial parts	OA saponins
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Robinieae</i>)]	<i>Sesbania vesicaria</i> (Jacq.) Ell.	Seeds	OA
<i>Fabaceae</i>	<i>Stylosanthes erecta</i> P. Beauv.	Aerial part	OA saponins
<i>Fabaceae</i>	<i>Swartzia langsdorffii</i> Raddi	Leaves	OA OA saponins
<i>Fabaceae</i>	<i>Swartzia madagascariensis</i> Desvaux.	Seeds or fruits	OA saponins
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Swartzieae</i>)]	<i>Swartzia schomburgkii</i> Benth.	Whole plants	OA saponins
<i>Fabaceae</i>	<i>Swartzia simplex</i> (Sw.) Spreng.	Leaves	OA saponins
<i>Fabaceae</i>	<i>Taverniera aegyptiaca</i> Boiss.	Root and stem barks	OA saponins
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Millettieae</i>)]	<i>Tephrosia strigosa</i> (Dalzell) Santapau et Maheshw.	Fruits	OA
<i>Fabaceae</i>	<i>Tetrapleura tetraptera</i> (Schum. & Thonn.)Taubert.	Whole plants	OA
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Phaseoleae</i>)]	<i>Vigna mungo</i> (Linn.) Hepper.	Fruit or stem barks	OA saponins
<i>Fabaceae</i> [<i>Faboideae</i> (<i>Phaseoleae</i>)]	<i>Vigna mungo</i> (Linn.) Hepper.	Roots	OA saponins
<i>Fagaceae</i> Dumortier	<i>Lithocarpus</i> Blume	Whole plants	OA
<i>Fagaceae</i>	<i>Lithocarpus attenuate</i> (Skan) Rehd.	Whole plants	OA
<i>Fagaceae</i>	<i>Lithocarpus polystachya</i> (Wall.) Rehd.	Stems	OA
<i>Fagaceae</i>	<i>Quercus pachyphylla</i> Kurz.	Stems	OA
<i>Fagaceae</i>	<i>Quercus semicarpifolia</i> Smith.	Whole plants	OA
<i>Fagaceae</i>	<i>Quercus semicarpifolia</i> Smith.	Leaves	OA
<i>Frankeniaceae</i> Desv.	<i>Frankenia trianda</i>	Whole plants	OA
<i>Fumariaceae</i> Bercht. et J. Presl.	<i>Corydalis saxicola</i> Bunting	Whole plants	OA
<i>Gentianaceae</i> Juss.	<i>Centaurium cachanlahuen</i> (Moll.) Robinson.	Whole plants	secondary metabolite OA
<i>Gentianaceae</i>	<i>Centaurium erythraea</i> Rafn.	Whole plants	OA
<i>Gentianaceae</i>	<i>Centaurium pulchellum</i> (Swartz) Druce	Whole plants	OA
<i>Gentianaceae</i>	<i>Centaurium umbellatum</i> Gilibert	Whole plants	OA
<i>Gentianaceae</i>	<i>Frasera tetrapetala</i> Poll.	Whole plants	OA
<i>Gentianaceae</i>	<i>Gentiana algida</i> Pallas	Whole plants	OA

<i>Gentianaceae</i>	<i>Gentiana apiata</i> N. E. Br.	Whole plants	OA
<i>Gentianaceae</i>	<i>Gentiana ariasnensis</i> Hayata	Whole plants	OA
<i>Gentianaceae</i>	<i>Gentiana barbata</i> (Froel.) Ma.	Whole plants	OA
<i>Gentianaceae</i>	<i>Gentiana lutea</i> Linn.	Whole plants	OA
<i>Gentianaceae</i>	<i>Gentiana macrophylla</i> Pall.	Roots	OA
<i>Gentianaceae</i>	<i>Gentiana manshurica</i> Kitag.	Aerial parts	OA
<i>Gentianaceae</i>	<i>Gentiana olivieri</i> Griseb.	Flowers	OA
<i>Gentianaceae</i>	<i>Gentiana rigescens</i> Franch.	Aerial parts	OA
<i>Gentianaceae</i>	<i>Gentiana scabra</i> Bunge	Aeiral parts	OA
<i>Gentianaceae</i>	<i>Gentiana schistocalyx</i> K. Koch.	Aerial parts	OA
<i>Gentianaceae</i>	<i>Gentiana siphonantha</i> Maximowicz ex Kusnezow	Rhizomes and roots	OA
<i>Gentianaceae</i>	<i>Gentiana sutchensis</i> Franch. ex. Hemsl.	Whole plants	OA
<i>Gentianaceae</i>	<i>Gentiana tibetica</i> King ex. J. D. Hooker.	Roots	OA
<i>Gentianaceae</i>	<i>Gentianella achalensis</i> (Gilg.) T. N. Ho et S. W. Liu	Flowering aerial parts	OA
<i>Gentianaceae</i>	<i>Gentianella acuta</i> (Michx.) Hulten	Aerial parts	OA
<i>Gentianaceae</i>	<i>Gentianella florida</i> (Griseb.) Holub.	Whole plants	OA
<i>Gentianaceae</i>	<i>Gentianella thysoidea</i> Hooker Fabris	Root, stem, flowers	OA
<i>Gentianaceae</i>	<i>Gentianopsis barbata</i> (Froel) Ma.	Whole plants	OA
	<i>Gentianopsis barbata</i> var. <i>stennocalyx</i> H. W. Li ex T. N. Ho		
<i>Gentianaceae</i>	<i>Gentianopsis paludosa</i> (Hook. f.) Ma	Whole plants	OA
<i>Geraniaceae</i>	<i>Geranium eriostemon</i> Fisch. ex DC.	Aerial parts	OA
<i>Gentianaceae</i>	<i>Halenia elliptica</i> D. Don.	Whole plants	OA
<i>Gentianaceae</i>	<i>Orphium frutescens</i> (Linn.) E. Meyer.	Leaves and stems	OA
<i>Gentianaceae</i>	<i>Swertia alata</i> (Royale ex D. Don) C.B. Clarke	Roots and aerial parts	OA
<i>Gentianaceae</i>	<i>Swertia bimaculata</i> (Sieb. et Zucc.) Hook. f. et Thoms. ex Clarke	Leaves and stems	OA
<i>Gentianaceae</i>	<i>Swertia binchuanensis</i> T. N. Ho & S. W. Liu	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia chirata</i> Buch-Ham	Aerial parts	OA
<i>Gentianaceae</i>	<i>Swertia chirayita</i> (Roxb. ex Fleming) Karsten	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia ciliata</i> (D. Don ex G. Don) B. L. Burtt.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia cincta</i> Burkill.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia davidi</i> Franch.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia decora</i> Franch.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia decussata</i> Nimmo.	Flowers	OA
<i>Gentianaceae</i>	<i>Swertia delavayi</i> Franch.	Whole plants	OA

<i>Gentianaceae</i>	<i>Swertia franchetiana</i> H. Smith.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia japonica</i> (Roem. & Schult.) Mak.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia macrosperma</i> C. B. Clark	Whole plant	OA
<i>Gentianaceae</i>	<i>Swertia mileensis</i> T. N. Ho et W. L. Shi	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia mussotii</i> Franch.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia nervosa</i> (G.Don) C.B. Clarke.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia patens</i> Burkill.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia przewalskii</i> Pissjauk.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia pubescens</i> Franch.	Plant	OA
<i>Gentianaceae</i>	<i>Swertia punicea</i> Hemsl.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia purpurascens</i> (D. Don) A. Wall ex E. D. Clarke	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia randaiensis</i> Hayata.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia tetraptera</i> Maxim.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia tosaensis</i> Makino.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia yunnanensis</i> Burk.	Whole plants	OA
<i>Gentianaceae</i>	<i>Swertia dilatata</i> C.B. Clarke.	Whole plants	OA
	<i>Swertia gracilescens</i> Harry Smith		
	<i>Swertia racemosa</i> (Griseb.) Wall. ex C. B. Clarke		
<i>Gentianaceae</i>	<i>Swertia bimaculata</i> (Siebold & Zucc.) C. B. Clarke	Whole plants	OA
	<i>Swertia hickinii</i> Franch.		
	<i>Swertia kouitchensis</i> Franch.		
	<i>Swertia macrosperma</i> (C. B. Clarke) C. B. Clarke		
	<i>Swertia punicea</i> Hemsl.		
<i>Gentianaceae</i>	<i>Tachiadenus longiflorus</i> Grisebach	Leaves and stems	OA
<i>Gentianaceae</i>	<i>Tripterospermum lanceolatum</i> (Hayata) Hara ex Satake	Aerial parts	OA
<i>Gentianaceae</i>	<i>Tripterospermum taiwanense</i> (Masam.) Satake	Whole plants	OA
<i>Gentianaceae</i>	<i>Tripterospermum taiwanense</i> (Masam.) Satake var. <i>alpinum</i> Satake	Fresh Whole plants	OA
<i>Gesneriaceae</i> Rich. et Juss.	<i>Kohleria deppeana</i> (Schlecht. et Cham.) Fritsch	Whole plants	OA
<i>Griselinaceae</i> J. R. Forst. et G. Forst. ex A.	<i>Griselinia scandens</i> (Ruíz & Pavon) Taubert.	Leaves	OA

Cunn.			
<i>Gunneraceae</i> Meisn.	<i>Gunnera masafueræ</i> Skottsberg	Secondary metabolites	OA
	<i>G. magellanica</i> Lam.		
	<i>G. peltata</i> Phil.		
	<i>G. tinctoria</i> (Molina) Mirbel.		
<i>Hamamelidaceae</i> R. Br.	<i>Semiliquidambar cathayensis</i> H. T. Chang.	Rhizomes	OA
<i>Hamamelidaceae</i>	<i>Sycopsis tutcherii</i> Hemsl.	Barks	OA
<i>Hydrangeaceae</i>	<i>Philadelphus coronarius</i> Linn.	Twigs	OA
Dumort.			
<i>Icacinaceae</i> Miers	<i>Pyrenacantha staudtii</i> Hutch and Dalz	Leaves	OA
<i>Iridaceae</i> Juss.	<i>Crocus sativus</i> Linn.	Bulbs	OA OA saponins
<i>Irvingiaceae</i> Exell et	<i>Irvingia malayana</i> Oliver ex Bennett	Wood	OA
Mendonca			
<i>Ixonanthaceae</i> Planch.	<i>Irvingia gabonensis</i> (Aubry-Lecomte ex O'Rorke)Baill.	Stem barks	OA
ex Klotzsch			
<i>Juglandaceae</i> DC. ex	<i>Cyclocarya paliurus</i> (Batal.) Iljinsk.	Leaves	OA
Perleb			
<i>Juglandaceae</i>	<i>Engelhardia roxburghiana</i> Wall.	Roots	OA
<i>Juglandaceae</i>	<i>Juglans mandshurica</i> Maxim.	Roots or pericarps	OA
<i>Juglandaceae</i>	<i>Juglans regia</i> L.	Pericarps	OA
<i>Lamiaceae</i> Martinov.	<i>Amaracus akhdarensis</i> (Ietswaart & Boulos) Brullo & F. Furnari	Aerial parts	OA
<i>Lamiaceae</i>	<i>Amaracus dictamnus</i> (L.) Benth.	Aerial parts	OA
<i>Lamiaceae</i>	<i>Amaracus pampanini</i> Li.	Aerial parts	OA
<i>Lamiaceae</i>	<i>Agastache rugosa</i> (Fisch.et Mey.) O. Kuntze	Roots	OA
<i>Lamiaceae</i>	<i>Ballota limbata</i> Linn.	Whole plants	OA
<i>Lamiaceae</i>	<i>Ballota undulate</i> (Sieb. ex Fres.) Benth.	Whole plants	OA
<i>Lamiaceae</i>	<i>Bystropogon canariensis</i> L'Hérit	Leaves and stems	OA
<i>Lamiaceae</i>	<i>Clerodendranthus spicatus</i> (Thunb.) C. Y. Wu	Aerial parts	OA
		Whole plants	OA saponins
<i>Lamiaceae</i>	<i>Clerodendrum serratum</i> (L.) Moon	Whole plants	OA
<i>Lamiaceae</i>	<i>Clerodendrum tomentosum</i> Vent. & R. Br.	Whole plants	OA
<i>Lamiaceae</i>	<i>Clinopodium gracile</i> (Benth.) O. Kuntze	Whole plants	OA

Lamiaceae	<i>Clinopodium umbrosum</i> (Bieb.) C. Koch.	Whole plants	OA
Lamiaceae	<i>Clinopodium vulgare</i> Linn.	Whole plants	OA
Lamiaceae	<i>Clinoponium laxiflorum</i> (Hay) Matsum	Whole plants	OA
Lamiaceae	<i>Coleus amboinicus</i> Lour.	Leaves	OA
Lamiaceae	<i>Coleus carnosifolius</i> (Hemsl.) Dunn.	Whole plants	OA
Lamiaceae	<i>Coleus esquirolii</i> (Lévl.) Dunn.	Stems and leaves	OA
Lamiaceae	<i>Coleus forskohlii</i> (Willd.) Briq.	Aerial parts	OA
Lamiaceae	<i>Coleus xanthanthus</i> CY Wu et YC Huang	Flowers	OA
Lamiaceae	<i>Cunila lythrifolia</i> Benth.	Aerial parts	OA
Lamiaceae	<i>Cyclotrichium niveum</i> (Boiss.) Manden. & Scheng.	Whole plants	OA
Lamiaceae	<i>Dracocephalum forrestii</i> W. W. Smith	Whole plants	OA
Lamiaceae	<i>Dracocephalum kotschyi</i> Boiss.	Whole plants	OA
Lamiaceae	<i>Dracocephalum moldavica</i> Linn.	Whole plants	OA
Lamiaceae	<i>Dracocephalum multicolor</i> Kom.	Whole plants	OA
Lamiaceae	<i>Dracocephalum subcapitatum</i> (O. Kuntze) Lipsky.	Whole plants	OA
Lamiaceae	<i>Dracocephalum tanguticum</i> Maxim.	Whole plants	OA
Lamiaceae	<i>Elsholtzia bodinieri</i> Vaniot	Roots	OA
Lamiaceae	<i>Elsholtzia rugulosa</i> Hemsl.	Whole plants	OA
Lamiaceae	<i>Eriope blanchetii</i> (Benth) Harley	Aerial parts	OA
Lamiaceae	<i>Glechoma hederacea</i> (L.) Trevir.	Whole plants	OA
Lamiaceae	<i>Glechoma hederacea</i> Linn.	Whole plants	OA
Lamiaceae	<i>Glechoma longituba</i> (Nakai) Kupr.	Whole plants	OA
Lamiaceae	<i>Hyptis albida</i> Kunth.	Whole plants	OA
Lamiaceae	<i>Hyptis capitata</i> Jacq.	Aerial parts	OA
Lamiaceae	<i>Hyptis mutabilis</i> (L. C. Richard) Briquet	Whole plants	OA
Lamiaceae	<i>Hyptis suaveolens</i> (Linn.) Poit.	Roots	OA
Lamiaceae	<i>Hyptis verticillata</i> Jacq.	Whole plants	OA
Lamiaceae	<i>Hyssopus ferganensis</i> Boriss.	Whole plants	OA
Lamiaceae	<i>Hyssopus officinalis</i> Linn.	callus	OA
Lamiaceae	<i>Hyssopus seravshanicus</i> Linn.	Whole plants	OA
Lamiaceae	<i>Isodon amethystoides</i> (Benth.) Hara.	Whole plants	OA
Lamiaceae	<i>Isodon eriocalyx</i> (Dunn) Haral	Stems and leaves	OA
Lamiaceae	<i>Isodon glaucocalyx</i> (Maxim.) Kudô	Whole plants	OA
Lamiaceae	<i>Isodon loxothysus</i> (Hand.-Mazz.)	Aerial parts	OA
Lamiaceae	<i>Isodon nervosus</i> (Hemsl.) Kudô.	Stems and leaves	OA
Lamiaceae	<i>Isodon oresbius</i> (W. W. Smith) Kudô	Whole plants	OA
Lamiaceae	<i>Isodon Phyllostachys</i> (Diels) Kudô	Aerial parts	OA

Lamiaceae	<i>Isodon ternifolius</i> (D. Don) Kudô	Stems and leaves	OA
Lamiaceae	<i>Isodon trichocarpus</i> (Maxim.) Kudô	Stems	OA
Lamiaceae	<i>Isodon xerophilus</i> (C. Y. Wu et H. W. Li) H. Hara	Leaves	OA
Lamiaceae	<i>Lagopsis supine</i> (Steph.) Ik. –Gal	Whole plants	OA
Lamiaceae	<i>Lamium album</i> Linn.	Flowers	OA
Lamiaceae	<i>Lavandula canariensis</i> (Linn.) Mill.	Nonvolatile part	OA
Lamiaceae	<i>Lavandula coronipifolia</i> Poir.	Whole plants	OA
Lamiaceae	<i>Lavandula multifida</i> Linn.	Aerial parts	OA
Lamiaceae	<i>Lavandula stoechas</i> Linn.	Aerial parts	OA
Lamiaceae	<i>Lavandula vera</i> DC.	Whole plants	OA
Lamiaceae	<i>Leucas aspera</i> (Willd.) Spreng.	Whole plants	OA
Lamiaceae	<i>Leucas cephalotes</i> (Roxb.) Spreng	Whole plants	OA
Lamiaceae	<i>Lycopus europaeus</i> Linn.	Aerial parts	OA
Lamiaceae	<i>Lycopus lucidus</i> Turcz.	Leaves	OA
Lamiaceae	<i>Marsypianthes chamae-dryas</i> (Vahl.) Kuntze.	Stems and aerial parts	OA
Lamiaceae	<i>Melissa officinalis</i> Linn.	Leaves	OA
Lamiaceae	<i>Mentha arvensis</i> Linn. var <i>piperascens</i> Malinv. ex Holmes.	Callus tissue	OA
Lamiaceae	<i>Mentha aquatica</i> var. <i>citrata</i> (J. F. Ehrh.) Benth.	Fitoterapia	OA
Lamiaceae	<i>Mentha Haplocalyx</i> Briq.	Leaves	OA
Lamiaceae	<i>Mentha longifolia</i> (Linn.) Hudson.	Aerial parts	OA
Lamiaceae	<i>Mentha spicata</i> (Linn.) Crantz	Leaves and stems	OA
Lamiaceae	<i>Mesona chinensis</i> Benth.	Whole plants	OA
Lamiaceae	<i>Mesona procumbens</i> Hemsl.	Whole plants	OA
Lamiaceae	<i>Micromeria benthami</i> Webb. et Berthel.	Aerial parts	OA
Lamiaceae	<i>Micromeria biflora</i> Benth.	Whole plants	OA
Lamiaceae	<i>Micromeria thymifolia</i> (Scop.) Fritsch.	Aerial parts	OA
Lamiaceae	<i>Mosla chinensis</i> Maxim.	Whole plants	OA
Lamiaceae	<i>Mosla dianthera</i> Maxim.	Whole plants	OA
Lamiaceae	<i>Nepeta hindostana</i> (Roth) Haines.	Whole plants	OA
Lamiaceae	<i>Nepeta heliotropifolia</i> Lam.	Aerial parts	OA
Lamiaceae	<i>Nepeta juncea</i> Benth.	Whole plants	OA
Lamiaceae	<i>Nepeta leucophylla</i> Benth.	Aerial parts	OA
Lamiaceae	<i>Nepeta nuda</i> Linn. ssp. <i>albiflora</i> (Boiss.) Gams	Whole plants	OA
Lamiaceae	<i>Ocimum basilicam</i> Linn	Whole plants	OA
Lamiaceae	<i>Ocimum basilicum</i> Linn.	Roots or aerial parts	OA

Lamiaceae	<i>Ocimum canum</i> Sim.	Leaves and flowers	OA
Lamiaceae	<i>Ocimum gratissimum</i> Linn	Leaves	OA
Lamiaceae	<i>Ocimum kilimandscharicum</i> Baker ex Gürke A	Flowers	OA
Lamiaceae	<i>Ocimum sanctum</i> Linn	Leaves	OA
Lamiaceae	<i>Ocimum spicatum</i> Deflers	Whole plants	OA
Lamiaceae	<i>Ocimum suave</i> Willd.	Essential oil	OA
Lamiaceae	<i>Origanum compactum</i> Benth.	Aerial parts	OA
Lamiaceae	<i>Origanum dictamnus</i> Linn.	Whole plants	OA
Lamiaceae	<i>Origanum tyttanthum</i> Gontsch.	Oil	OA
Lamiaceae	<i>Origanum syriacum</i> L.	Aerial parts	OA
Lamiaceae	<i>Origanum vulgare</i> L.	Aerial parts	OA
Lamiaceae	<i>Orthosiphon stamineus</i> Benth.	Leaves	OA
Lamiaceae	<i>Orthosiphon wulfenioides</i> (Diels) Hand.-Mazz.	Roots	OA
Lamiaceae	<i>Otostegia fruticosa</i> (Forssk.) Schweint. ex Penzing.	Whole plants	OA
Lamiaceae	<i>Otostegia limbata</i> Benth. ex Hook. f.	Roots	OA
Lamiaceae	<i>Perilla frutescens</i> (Linn.) Britt.	Leaves	OA
Lamiaceae	<i>Perilla frutescens</i> (Linn.) Britton var. <i>japonica</i> (Hassk.) H. Hara.	Leaves	OA
Lamiaceae	<i>Perovskia atriplicifolia</i> Benth.	Whole plants	OA
Lamiaceae	<i>Phlomis umbrosa</i> Turcz.	Whole plants	OA
Lamiaceae	<i>Platostoma africanum</i> P. Beauv.	Whole plants	OA
Lamiaceae	<i>Plectranthus rugosus</i> Wall. ex Benth.	Whole plants	OA
Lamiaceae	<i>Pogostemon cablin</i> (Blanco) Benth.	Whole plants	OA
Lamiaceae	<i>Prunella grandiflora</i> (Linn.) Scholler et Jacq.	Whole plants	OA
Lamiaceae	<i>Prunella vulgaris</i> L.	Spikes or fruits	OA OA saponins
Lamiaceae	<i>Prunella vulgaris</i> L. var. <i>lilacina</i> Nakai	Aerial parts	OA OA saponins
Lamiaceae	<i>Prunella asiatic</i> Soc. Bengal <i>Prunella hispida</i> Benth.	Whole plants	OA
Lamiaceae	<i>Rabdosia adenoloma</i> (Hand. – Mazz.) Hara.	Aerial parts	OA OA saponins
Lamiaceae	<i>Rabdosia amethystoides</i> (Benth.) Hara.	Leaves	OA
Lamiaceae	<i>Rabdosia coetsa</i> (Buch.-Ham. ex D. Don) Hara.	Leaves	OA
Lamiaceae	<i>Rabdosia excisa</i> (Maxim.) Hara.	Aerial parts	OA
Lamiaceae	<i>Rabdosia excisoides</i> (Sun ex C. H. Hu) C. Y. Wu et H. W. Li	Leaves	OA

Lamiaceae	<i>Rabdosia henryi</i> (Hemsl.) Hara.	Leaves	OA
Lamiaceae	<i>Rabdosia inflexus</i> (Thunb.) Kudo.	Leaves	OA
Lamiaceae	<i>Rabdosia japonica</i> (Burm. f.) Haravar	Aerial parts or roots	OA
Lamiaceae	<i>Rabdosia japonica</i> (Burm. f.). Hara var. <i>glaucoalyx</i> (Maxim.) Hara.	Stem leaves or roots	OA
Lamiaceae	<i>Rabdosia lophanthoides</i> (Buch.-Ham. ex D. Don) Hara.	leaves	OA
Lamiaceae	<i>Rabdosia rubescens</i> (Hemsl.) Hara.	Stem leaves	OA
Lamiaceae	<i>Rabdosia ternifolia</i> (D. Don.) Hara.	Leaves	OA
Lamiaceae	<i>Raphiodon echinus</i> (Mart. et Nees) Schauer.	Whole plants	OA
Lamiaceae	<i>Rosmarinus officinalis</i> Linn.	Stems or leaves	OA
Lamiaceae	<i>Roylea elegans</i> Wall.	Roots	OA
Lamiaceae	<i>Salvia aegyptiaca</i> Linn.	Whole plants	OA
Lamiaceae	<i>Salvia aethiopsis</i> Linn.	Aerial parts Roots	OA
Lamiaceae	<i>Salvia amplexicaulis</i> Lam.	Roots or plant	OA
Lamiaceae	<i>Salvia anastomosans</i> Ramamoorthy	Aerial parts	OA
Lamiaceae	<i>Salvia apiana</i> Jepson.	Leaves	OA
Lamiaceae	<i>Salvia argentea</i> Linn.	Aerial parts	OA
Lamiaceae	<i>Salvia bellotaeflora</i> Linn.	Whole plants	OA
Lamiaceae	<i>Salvia breviflora</i> Moc. & Sessé, ex Benth.	Whole plants	OA
Lamiaceae	<i>Salvia canariensis</i> Linn.	Aerial part	OA
Lamiaceae	<i>Salvia calycina</i> Sibth. et Sm.	Whole plants	OA
Lamiaceae	<i>Salvia candelabrum</i> Boiss. (Ex. J.B. de Dijon).	Aerial parts	OA
Lamiaceae	<i>Salvia cardiophylla</i> Benth.	Whole plants	OA
Lamiaceae	<i>Salvia cedronella</i> Boiss.	Aerial parts	OA
Lamiaceae	<i>Salvia chamelaeagnea</i> K. Bergius	Whole plants	OA
Lamiaceae	<i>Salvia cilicica</i> Boiss. et Kotschy	Roots	OA
Lamiaceae	<i>Salvia deserta</i> Schang	Flowers or leaves	OA
Lamiaceae	<i>Salvia divaricata</i> Montbr. et Auch.	Whole plants	OA
Lamiaceae	<i>Salvia elegans</i> Vahl.	Leaves and flowers	OA
Lamiaceae	<i>Salvia euphratica</i> Montbret et Aucher ex Benth.	Whole plants	OA
Lamiaceae	<i>Salvia gilliessi</i> Benth.	Aerial parts	OA
Lamiaceae	<i>Salvia glabrescens</i> Makino	Whole plants	OA
Lamiaceae	<i>Salvia hierosolymitana</i> Boiss.	Whole plants	OA
Lamiaceae	<i>Salvia horminum</i> Linn.	Upper plant tissues	OA
Lamiaceae	<i>Salvia hydrangea</i> DC. ex Benth.	Roots	OA
Lamiaceae	<i>Salvia japonica</i> Thunb.	Whole plants	OA

Lamiaceae	<i>Salvia lanigera</i> Poir.	Whole plants	OA
Lamiaceae	<i>Salvia lavanduloides</i> Kunth.	Aerial parts	OA
Lamiaceae	<i>Salvia lineate</i> Benth.	Aerial parts	OA
Lamiaceae	<i>Salvia longipedicellata</i> Hedge	Whole plants	OA
Lamiaceae	<i>Salvia longystyla</i> Benth.	Whole plants	OA
Lamiaceae	<i>Salvia mellifera</i> E. Greene	Aerial parts	OA
Lamiaceae	<i>Salvia melissodora</i> D. R. Conabio.	Aerial parts	OA
Lamiaceae	<i>Salvia microphylla</i> Kunth.	Whole plants	OA
Lamiaceae	<i>Salvia miltiorrhiza</i> Bunge	Aerial parts	OA
Lamiaceae	<i>Salvia moorcraftiana</i> Wall.	Aerial parts	OA
Lamiaceae	<i>Salvia moorcroftiana</i> Wall. ex Benth.	Aerial parts	OA
Lamiaceae	<i>Salvia nicolsoniana</i> Ram.	Aerial parts	OA
Lamiaceae	<i>Salvia nemorosa</i> Lubeca	Shoot	OA
Lamiaceae	<i>Salvia officinalis</i> Linn.	Leaves	OA
Lamiaceae	<i>Salvia palaefolia</i> H. B. Kunth.	Aerial parts	OA
Lamiaceae	<i>Salvia pilifera</i> Benth.	Aerial parts	OA
Lamiaceae	<i>Salvia pinnata</i> Linn.	Leaves	OA
Lamiaceae	<i>Salvia pomifera</i> Linn.	Whole plants	OA
Lamiaceae	<i>Salvia przewalskii</i> Maxim.	Roots	OA
Lamiaceae	<i>Salvia recognita</i> Fisch. et C. A. Meyer.	Aerial parts or roots	OA
Lamiaceae	<i>Salvia regal</i> Cav.	Aerial parts	OA
Lamiaceae	<i>Salvia reptans</i> Jacq.	Whole plants	OA
Lamiaceae	<i>Salvia roborowskii</i> Maxim.	Whole plants	OA
Lamiaceae	<i>Salvia sapinae</i> Epling Stachys	Aerial parts	OA
Lamiaceae	<i>Salvia sclarea</i> Linn.	Roots	OA
Lamiaceae	<i>Salvia sclareoides</i> Brot.	Roots	OA
Lamiaceae	<i>Salvia sousae</i> Ram.	Aerial parts	OA
Lamiaceae	<i>Salvia tomentosa</i> Miller	Leaves	OA
Lamiaceae	<i>Salvia triloba</i> L. S. fruticosa Miller.	Leaves	OA
Lamiaceae	<i>Salvia umbratica</i> Hance	Whole Herbs	OA
Lamiaceae	<i>Salvia uruapana</i> Fernald.	Aerial parts	OA
Lamiaceae	<i>Salvia verticillata</i> Linn.	Roots	OA
Lamiaceae	<i>Salvia willeana</i> (Holmboe) Hedge	Whole plants	OA
Lamiaceae	<i>Salvia grandiflora</i> Etling	Whole plants	OA
	<i>Salvia menthaefolia</i> Ten.		

	<i>Salvia splendens</i> Ker-Gawl		
	<i>Salvia lavandulifolia</i> Vahl.		
<i>Lamiaceae</i>	<i>Salvia cryptantha</i> Montbret et Aucher ex Benth.	Roots	OA
	<i>Salvia pisidica</i> Boiss. & Heldr. ex Benth.		
	<i>Salvia virgata</i> Jacq.		
	<i>Salvia potentillifolia</i> Boiss. & Heldr. ex Benth.		
<i>Lamiaceae</i>	<i>Salvia ringens</i> Sibth. & Sm.	Leaves	OA
	<i>Salvia scabiosifolia</i> Linn.		
<i>Lamiaceae</i>	<i>Satureja macrantha</i> C. A. Meyer.	Aerial parts	OA
<i>Lamiaceae</i>	<i>Satureia montana</i> Linn.	Whole plants	OA
<i>Lamiaceae</i>	<i>Satureja mutica</i> Fisch. & C. A. Mey.	Whole plants	OA
<i>Lamiaceae</i>	<i>Satureja obovata</i> Lag.	Whole plants	OA
[<i>Nepetoideae</i> (<i>Menthaeae</i>)]			
<i>Lamiaceae</i>	<i>Satureja parvifolia</i> (Phillippi) Epling.	Whole plants	OA
<i>Lamiaceae</i>	<i>Schizonepeta tenuifolia</i> (Benth.) Briq.	Aerial parts	OA
<i>Lamiaceae</i>	<i>Scutellaria baicalensis</i> Georgi.	Cell suspension cultures	OA
<i>Lamiaceae</i>	<i>Scutellaria strigillosa</i> Hemsl.	Roots	OA
<i>Lamiaceae</i>	<i>Stachys spinosa</i> Linn.	Aerial parts	OA
<i>Lamiaceae</i>	<i>Syncolostemon rotundifolius</i> E. Mey. ex Benth.	Whole plants	OA
<i>Lamiaceae</i>	<i>Teucrium fruticans</i> Linn.	Whole plants	OA
<i>Lamiaceae</i>	<i>Teucrium marum</i> Verum.	Whole plants	OA
<i>Lamiaceae</i>	<i>Thymus algeriensis</i> Boiss.	Leaves	OA
<i>Lamiaceae</i>	<i>Thymus bashkiriensis</i> Klokov et Roussine	Aerial parts	OA
<i>Lamiaceae</i>	<i>Thymus broussonettii</i> Boiss.	Leaves	OA
<i>Lamiaceae</i>	<i>Thymus caespititius</i> Brot.	Whole plants	OA
<i>Lamiaceae</i>	<i>Thymus capitatus</i> Linn.	Whole plants	OA
<i>Lamiaceae</i>	<i>Thymus caucasicus</i> Willd. ex Ronniger	Whole plants	OA
<i>Lamiaceae</i>	<i>Thymus dimorphus</i> Klokov et Roussine	Whole plants	OA
<i>Lamiaceae</i>	<i>Thymus kotschyanus</i> Boiss. et Hohen.	Whole plants	OA
<i>Lamiaceae</i>	<i>Thymus nummularius</i> M. Bieb.	Whole plants	OA
<i>Lamiaceae</i>	<i>Thymus satyroides</i> Coss.	Leaves	OA

<i>Lamiaceae</i>	<i>Thymus serpyllum</i> Linn.	Whole plants	OA
<i>Lamiaceae</i>	<i>Thymus vulgaris</i> Linn.	Aerial parts	OA
<i>Lamiaceae</i>	<i>Thymus willdenowii</i> Boiss.	Leaves	OA
<i>Lamiaceae</i>	<i>Vitex negundo</i> L.	Seeds	OA
<i>Lamiaceae</i>	<i>Zataria multiflora</i> Boiss.	Leaves, stems and flowers	OA
<i>Lamiaceae</i>	<i>Ziziphora clinopodioides</i> Lam.	Aerial parts	OA
[<i>Nepetoideae</i> (<i>Mentheae</i>)]		Stem and roots	OA
<i>Lardizabalaceae</i> R. Br.	<i>Akebia longeracemosa</i> Matsum.	Stems	OA OA saponins
<i>Lardizabalaceae</i>	<i>Akebia quinata</i> (Thunb.) Decne.	Stems or pericarp	OA OA saponins
		Branches or stems	OA
<i>Lardizabalaceae</i>	<i>Akebia trifoliata</i> (Thunb.) Koidz.	Roots or stems	OA
		Seeds	OA saponins
<i>Lardizabalaceae</i>	<i>Akebia trifoliata</i> (Thunb.) Koidz. var. <i>australis</i> (Diels.) Kehd.	Stems	OA saponins
<i>Lardizabalaceae</i>	<i>Boquila trifoliata</i> (DC.) Decne.	Leaves	OA
<i>Lardizabalaceae</i>	<i>Decaisnea fargesii</i> Franchet.	Stems	OA OA saponins
<i>Lardizabalaceae</i>	<i>Lardizabala biternata</i> Ruiz and Pavon	Whole plants	OA
<i>Lardizabalaceae</i>	<i>Stauntonia chinensis</i> DC.	Whole plants	OA saponins
<i>Lardizabalaceae</i>	<i>Stauntonia hexaphylla</i> (Thunb.) Decne.	Whole plants	OA
		Seeds	OA saponins
<i>Loasaceae</i> Juss.	<i>Petalonyx parryi</i> A. Gray	Whole plants	OA
<i>Loganiaceae</i> R. Br. ex Martius	<i>Buddleja asiatica</i> Lour.	Aerial parts	OA
<i>Loganiaceae</i>	<i>Strychnos potatorum</i> Linn.	Seeds	OA OA saponins
<i>Loganiaceae</i>	<i>Strychnos spinosa</i> Lam.	Leaves	OA
<i>Lomariopsidaceae</i>	<i>Nephrolepis cordifolia</i> (L.) C. Presl.	Whole plants	OA
<i>Loranthaceae</i> Juss.	<i>Aspidixia angulata</i> (Heyne) Van Tieghem	Whole plants	OA
<i>Loranthaceae</i>	<i>Loranthus falcatus</i> Linn. f.	Stems	OA
<i>Lythraceae</i> J. St.-Hill.	<i>Duabanga grandiflora</i> (Roxb. ex DC.) Walpers	Stems	OA

Lythraceae	<i>Lagerstroemia guilinensis</i> S. K. Lee et L. F. Lau	Stems	OA
Lythraceae	<i>Lagerstroemia lanceolata</i> Wall.	Leaves	OA
Lythraceae	<i>Lagerstroemia speciosa</i> (Linn.) Pers.	Leaves	OA
Lythraceae	<i>Lythrum anceps</i> (Koehne) Makino	Whole plants	OA
Lythraceae	<i>Lythrum salicaria</i> Linn.	Aerial parts	OA
Lythraceae	<i>Punica granatum</i> Linn.	Pericarps, seeds or flowers	OA
Lythraceae	<i>Sonneratia caseolaris</i> (L.) Engl <i>Sonneratia ovata</i> Backer	Fruits	OA
Malpighiaceae Juss.	<i>Acridocarpus vivy</i>	Whole plants	OA
Malpighiaceae	<i>Banisteriopsis caapi</i> (Spruce ex Grisebach) Morton.	Whole plants	OA
Malpighiaceae	<i>Byrsonima basiloba</i> A. Juss.	Whole plants	OA
Malpighiaceae	<i>Byrsonima crassa</i> Nied.	Leaves and barks	OA
Malpighiaceae	<i>Byrsonima crassifolia</i> (L.) Kunth.	Leaves	OA
Malpighiaceae	<i>Byrsonima microphylla</i> A. Juss	Leaves	OA
Malpighiaceae	<i>Byrsonima spicata</i> (Cav.) DC.	Whole plants	OA
Malpighiaceae	<i>Byrsonima verbascifolia</i> (L.) DC.	Leaves	OA
Malvaceae Juss.	<i>Abutilon karachianum</i> Husain & Baquar	Whole plants	OA
Malvaceae	<i>Abutilon indicum</i> (Link.) Sweet	Whole plants	OA
Malvaceae	<i>Brachychiton australis</i> (Schott & Endl.) A. Terrac.	Leaves	OA
(Sterculiaceae)			
Malvaceae	<i>Corchorus olitorius</i> Linn.	Leaves	OA saponins
Malvaceae	<i>Firmiana platanifolia</i> (Linn. f.) Marsili	Petals	OA
(Sterculiaceae)			
Malvaceae	<i>Helicteres angustifolia</i> Linn.	Roots	OA
(Sterculiaceae)			
Malvaceae	<i>Helicteres isora</i> Linn.	Roots and stems	OA
(Sterculiaceae)			
Malvaceae	<i>Heritiera littoralis</i> Dryand. ex Aiton	Stem barks	OA
(Sterculiaceae)			
Malvaceae	<i>Ochroma pyramidale</i> (Cav. ex Lam.) Urb.	Leaves	OA
(Bombacaceae)			
Malvaceae	<i>Salmalia malabarica</i> (DC.) Schott et Endl.	Heartwood	OA
Malvaceae	<i>Scaphopetalum thonneri</i> De Wild.	Stem barks	OA
(Sterculiaceae)			
Melastomataceae Juss.	<i>Memecylon umbelatum</i> Burm.	Whole plants	OA
Melastomataceae	<i>Miconia albicans</i> (Sw.) Triana	Wood	OA

<i>Melastomataceae</i>	<i>Miconia fallax</i> DC.	Aerial parts	OA
<i>Melastomataceae</i>	<i>Miconia ligustroides</i> (DC.) Naudin	Whole plants	OA
<i>Melastomataceae</i>	<i>Miconia sellowiana</i> Naudin	Whole plants	OA
<i>Melastomataceae</i>	<i>Miconia stenostachya</i> (Schrank et Mart.) DC.	Whole plants	OA
<i>Melastomataceae</i>	<i>Melastoma dodecandrum</i> Lour.	Whole plants	OA
<i>Meliaceae</i> Juss.	<i>Cedrela fissilis</i> Vell.	Roots	OA
<i>Meliaceae</i>	<i>Swietenia mahagoni</i> (Linn.) Jacq.	Stem barks	OA
<i>Melanthaceae</i> Bercht. et J. Presl.	<i>Bersama engleriana</i> Gürke	Stem barks	OA saponins
<i>Melanthaceae</i>	<i>Bersama swinnyi</i> E. Philips	Leaves	OA
<i>Melanthaceae</i>	<i>Bersama yangambiensis</i> L. Touss.	Whole plants	OA saponins
<i>Melanthaceae</i>	<i>Melianthus major</i> Linn.	Whole plants	OA
<i>Menispermaceae</i> Juss.	<i>Diploclisia glaucescens</i> (Blume) Diels	Leaves	OA saponins
<i>Menispermaceae</i>	<i>Fibraurea recisa</i> Pierre.	Whole plants	OA
<i>Menyanthaceae</i> Dumort.	<i>Nymphoides peltatum</i> (S. G. Gmel.) O. Kuntze.	Whole plants	OA
<i>Molluginaceae</i> Bartl.	<i>Glinus lotoides</i> Linn.	Seeds or roots	OA
<i>Molluginaceae</i>	<i>Mollugo hirta</i> Thunb.	Whole plants	OA
<i>Molluginaceae</i>	<i>Mollugo pentaphylla</i> Linn.	Aerial part	OA
<i>Molluginaceae</i>	<i>Mollugo spergula</i> Linn.	Root	OA
<i>Moraceae</i> Link.	<i>Antiaris africana</i> Engler	Stem barks	OA
<i>Moraceae</i>	<i>Broussonetia kazinoki</i> Sieb.	Root barks	OA
<i>Moraceae</i>	<i>Broussonetia papyrifera</i> (L.) Vent.	Cortex	OA
<i>Moraceae</i>	<i>Dorstenia picta</i> Bureau	Leaves and twigs	OA
<i>Moraceae</i>	<i>Ficus benjamina</i> Linn.	Leaves	OA
<i>Moraceae</i>	<i>Ficus carica</i> Linn.	Leaves	OA
<i>Moraceae</i>	<i>Ficus cordata</i> Thunb.	Stem barks	OA
<i>Moraceae</i>	<i>Ficus hispida</i> Linn. f.	Leaves	OA
<i>Moraceae</i>	<i>Ficus microcarpa</i> Linn. f.	Fruits, leaves or aerial roots	OA
<i>Moraceae</i>	<i>Ficus nervosa</i> Heyne ex Roth.	Roots	OA
<i>Moraceae</i>	<i>Ficus ovata</i> Vahl.	Stem barks	OA
<i>Moraceae</i>	<i>Ficus tikoua</i> Bur.	Whole plants	OA
<i>Moraceae</i>	<i>Morus alba</i> Linn.	Whole plants	OA
<i>Moraceae</i>	<i>Morus nigra</i> L.	Stem barks	OA
<i>Moraceae</i>	<i>Streblus asper</i> Lour.	Roots	OA saponins

		Leaves	OA
<i>Myricaceae</i> Blume	<i>Myrica gale</i> Linn.	Whole plants	OA
<i>Myricaceae</i>	<i>Myrica nana</i> Cheval.	Roots	OA
<i>Myricaceae</i>	<i>Myrica rubra</i> Siebold et Zucc.	Stem barks	OA
<i>Myristicaceae</i> R. Br.	<i>Myristica fragrans</i> Houtt.	Seeds	OA
<i>Myrsinaceae</i> R. Br.	<i>Aegiceras comiculatum</i> (L.) Blanco	Stem barks	OA
<i>Myrsinaceae</i>	<i>Ardisia japonica</i> (Thunb.) Bl.	Whole plants	OA
<i>Myrsinaceae</i>	<i>Ardisia nerifolia</i> D.C.	Whole plants	OA saponins
<i>Myrsinaceae</i>	<i>Lysimachia davurica</i> Ledeb.	Whole plants	OA
<i>Myrtaceae</i> Juss.	<i>Backhousia angustifolia</i> F. Muell.	Leaves	OA
<i>Myrtaceae</i>	<i>Baeckea gunniana</i> Schauer ex Walp.	Whole plants	OA
<i>Myrtaceae</i>	<i>Callistemon lanceolatus</i> (Sm.) Sweet	Stems	OA
<i>Myrtaceae</i>	<i>Callistemon rigidus</i> R. Br.	Whole plants	OA
<i>Myrtaceae</i>	<i>Callistemon viminalis</i> G. Don.	Whole plants	OA
<i>Myrtaceae</i>	<i>Cleistocalyx operculatus</i> (Roxb.) Merr. et Perry.	Flower buds	OA
<i>Myrtaceae</i>	<i>Eucalyptus camaldulensis</i> Dehnh.	Leaves	OA
<i>Myrtaceae</i>	<i>Eucalyptus camaldulensis</i> F. V. Muell. var. <i>obtusata</i> Blak.	Leaves	OA
<i>Myrtaceae</i>	<i>Eucalyptus camaldulensis</i> Dehnh. var. <i>pendula</i> Blak. et Jacobs	Leaves	OA
<i>Myrtaceae</i>	<i>Eucalyptus globulus</i> Labill.	Outer barks leaves or fruits	OA
<i>Myrtaceae</i>	<i>Eucalyptus occidentalis</i> Endl.	Leaves	OA
<i>Myrtaceae</i>	<i>Eucalyptus albens</i> Benth.	Leaves	OA
	<i>E. leucoxydon</i> F. Muell.		
	<i>E. obliqua</i> L'Herit		
	<i>E. ovata</i> Labill.		
	<i>E. rostrata</i> Schlecht		
	<i>E. polyanthemos</i> Schauer		
	<i>E. sideroxydon</i> A. Cunn. ex Woolls		
	<i>E. umbellatum</i> (Siebold et Zuccarini) Blume		
<i>Myrtaceae</i>	<i>Eucalyptus perriniana</i> E. Muell.	Cultured cells	OA

Myrtaceae	<i>Eucalyptus robusta</i> Smith.	Leaves	OA
Myrtaceae	<i>Eucalyptus viminalis</i> Labill.	Leaves	OA
Myrtaceae	<i>Eugenia caryophyllata</i> Thunb.	Cloves	OA
Myrtaceae	<i>Eugenia caryophyllus</i> (Spreng.) Bullock & S. G. Harrison	Flower buds	OA
Myrtaceae	<i>Eugenia grandis</i> (Blume) Wight	Stem barks	OA
Myrtaceae	<i>Eugenia gustavioides</i> F. M. Bailey	Wood	OA
Myrtaceae	<i>Eugenia jambolana</i> Lamarck	Flowers or fruits	OA
Myrtaceae	<i>Eugenia javanica</i> Lamarck	Flowers	OA
Myrtaceae	<i>Eugenia maire</i> A. Cunn.	Leaves	OA
Myrtaceae	<i>Leptospermum scoparium</i> Forst.	Ground fibrous outer barks	OA
Myrtaceae	<i>Luma gayana</i> (Barn.) Burret	Aerial parts	OA
Myrtaceae	<i>Melaleuca bracteata</i> F. Muell.	Stem barks	OA
Myrtaceae	<i>Myrcianthes coquimbensis</i> (Barneoud) Landrum et Grifo	Whole plants	OA
Myrtaceae	<i>Myrtus communis</i> Linn.	Leaves	OA
Myrtaceae	<i>Plinia edulis</i> (Vell.) Sobral	Leaves	OA
Myrtaceae	<i>Plinia pinnata</i> Linn.	Aerial parts	OA
Myrtaceae	<i>Psidium guajava</i> Linn.	Leaves, heartwood or flowers	OA
		Fruit	OA saponins
Myrtaceae	<i>Syzygium aromatica</i> (Linn.) Merr. et Perry.	Buds or clove	OA
Myrtaceae	<i>Syzygium buxifolium</i> Hook. et Arn.	Stem and roots	OA
Myrtaceae	<i>Syzygium claviflorum</i> (Roxb.) Wall.	Whole plants	OA
Myrtaceae	<i>Syzygium formosanum</i> (Hayata) Mori	Leaves	OA
Myrtaceae	<i>Syzygium guineense</i> (Willd.) DC.	Leaves	OA
Myrtaceae	<i>Syzygium jambos</i> L.	Stem barks	OA
Myrtaceae	<i>Ugni molinae</i> Turcz.	Leaves	OA
Nyctaginaceae Juss.	<i>Guapira graciliflora</i> (Vell.) Reitz	Leaves	OA saponins
Nyctaginaceae	<i>Mirabilis himalaica</i> (Edgew.) Heimerl	Roots	OA
Nyctaginaceae	<i>Mirabilis jalapa</i> Linn.	Aerial parts	OA
Nyctaginaceae	<i>Pisonia umbellifera</i> (Forst.) Seem.	Leaves	OA saponins
Ochnaceae DC.	<i>Ochna squarrosa</i> Linn.	Heartwood	OA
Olacaceae R. Br.	<i>Olox andronensis</i> Baker.	Leaves, roots, and barks	OA saponin
Olacaceae	<i>Olox angustifolia</i> Compere	Whole plants	OA saponins
Olacaceae	<i>Olox dissitiflora</i> Oliver	Roots	OA

			OA saponins
<i>Oleaceae</i>	<i>Olax gambecola</i> Baill.	Whole plants	OA saponins
<i>Oleaceae</i>	<i>Olax glabriflora</i> Danguy	Leaves, roots, and barks	OA saponin
<i>Oleaceae</i>	<i>Olax latifolia</i> Engl.	Root barks and roots	OA saponins
<i>Oleaceae</i>	<i>Olax obtusifolia</i> De Wild.	Root barks	OA saponins
<i>Oleaceae</i>	<i>Olax psittacorum</i> (Willd.) Vahl.	Leaves, roots, and barks	OA saponin
<i>Oleaceae</i>	<i>Olax subscorpioidea</i> Oliv.	Roots	OA saponins
<i>Oleaceae</i>	<i>Olax wildemanii</i> Engl.	Whole plants	OA saponins
<i>Oleaceae</i>	<i>Ximenia americana</i> Linn.	Roots	OA saponins
		Stems	OA
<i>Oleaceae</i> Hoff. & Link	<i>Forsythia koreana</i> Nakai	Fruits	OA
<i>Oleaceae</i>	<i>Forsythia suspensa</i> (Thumb.) Vahl.	Pericarps of flowers or fruits	OA
<i>Oleaceae</i>	<i>Forsythia viridissima</i> Lindl.	Fruits	OA
<i>Oleaceae</i>	<i>Fraxinus greggi</i> A. Gray	Aerial part	OA
<i>Oleaceae</i>	<i>Fraxinus uhdei</i> (Wenzig) Lingelsh	Fruits, leaves and barks	OA
<i>Oleaceae</i>	<i>Jasminum flexile</i> Vahl.	Leaves	OA
	<i>J. humile</i> Linn.		
	<i>J. multiflorum</i> (N. L. Burman)		
	<i>J. sambac</i> (Linn.) Aiton		
<i>Oleaceae</i>	<i>Jasminum grandiflorum</i> L.	Whole plants	OA
<i>Oleaceae</i>	<i>Jasminum odoratissimum</i> Linn.	Leaves	OA
<i>Oleaceae</i>	<i>Jasminum sambac</i> (L.) Aiton	Flowers	OA
<i>Oleaceae</i>	<i>Ligustrum delavayanum</i> Hariot	Leaves	OA
<i>Oleaceae</i>	<i>Ligustrum japonicum</i> Thunb.	Pericarp of fruits, fruits, seeds or leaves	OA
<i>Oleaceae</i>	<i>Ligustrum lucidum</i> Ait.	Fruits	OA OA saponins
<i>Oleaceae</i>	<i>Ligustrum obtusifolium</i> Sieb. et Zucc.	Seeds or fruits	OA
<i>Oleaceae</i>	<i>Ligustrum quihoni</i> Carr.	Branches and leaves	OA
<i>Oleaceae</i>	<i>Ligustrum sinense</i> Lour.	Fruits	OA

<i>Oleaceae</i>	<i>Ligustrum vulgare</i> L.	Leaves	OA
<i>Oleaceae</i>	<i>Nyctanthes arbortristis</i> Linn.	Leaves or callis	OA
<i>Oleaceae</i>	<i>Olea europaea</i> Linn.	Fruits, pulp, leaves, skin or seeds	OA
<i>Oleaceae</i>	<i>Olea europaea</i> Linn. cv. Coratina	Fruits	OA
<i>Oleaceae</i>	<i>Olea verrucosa</i> (Willd.) Link.	Leaves	OA
<i>Oleaceae</i>	<i>Osmanthus fordii</i> Hemsl.	Stems and leaves	OA
<i>Oleaceae</i>	<i>Osmanthus fragrans</i> (Thunb.) Loureiro.	Flowers or leaves	OA
<i>Oleaceae</i>	<i>Osmanthus yunnanensis</i> (Fr.) P. S. Green	Aerial parts	OA
<i>Oleaceae</i>	<i>Phyllirea latifolia</i> Linn.	Leaves	OA
<i>Oleaceae</i>	<i>Schrebera swietenoides</i> Roxb.	Fruits	OA
<i>Oleaceae</i>	<i>Syringa oblata</i> Lindl.	Stem barks	OA
<i>Onagraceae</i> Juss.	<i>Chamaenerion angustifolium</i> (Linn.) Scop.	Leaves	OA
<i>Onagraceae</i>	<i>Epilobium hirsutum</i> Linn.	Leaves and flowers	OA
<i>Onagraceae</i>	<i>Ludwigia hyssopifolia</i> (G. Don) Exell	Whole plants	OA
<i>Onagraceae</i>	<i>Ludwigia octovalvis</i> (Jacq.) P. H. Raven.	Whole plants	OA
<i>Onagraceae</i>	<i>Oenothera biennis</i> Linn.	Roots	OA
<i>Onagraceae</i>	<i>Oenothera speciosa</i> Nutt.	Seeds or oil	OA
<i>Opiliaceae</i> Valetton.	<i>Opilia celtidifolia</i> (Guill. et Perr.) Endl.	Leaves and stems	OA saponins
<i>Orchidaceae</i> Juss.	<i>Anoectochilus roxburghii</i> (Wall.) Lindl.	Whole plants	OA
<i>Orchidaceae</i>	<i>Dendrobium densiflorum</i> Wall. ex Lindl.	Whole plants	OA
<i>(Epidendroideae)</i>			
<i>Orchidaceae</i>	<i>Pogonia parviflora</i> (Lindl.) Reichb. f.	Whole plants	OA saponins
[<i>Vanilloideae</i>			
<i>(Pogoniinae)</i>]			
<i>Orobanchaceae</i> Vent.	<i>Boschniakia rossica</i> (Cham. et Schlecht.) B. Fedtsch. et Flerov [B. Glabra C. A. Mey.]	Aerial parts	OA
<i>Orobanchaceae</i>	<i>Pedicularis oederi</i> Vahl.	Whole plants	OA
<i>Oxalidaceae</i> R. Br.	<i>Averrhoa bilimbi</i> Linn.	Whole plants	OA
<i>Paeoniaceae</i> Raf.	<i>Paeonia emodi</i> Wall. ex Royle.	Whole plants	OA
<i>Paeoniaceae</i>	<i>Paeonia japonica</i> (Makino) Miyabe et Takeda	Tissue culture	OA
<i>Paeoniaceae</i>	<i>Paeonia lactiflora</i> Pall.	Roots	OA
<i>Paeoniaceae</i>	<i>Paeonia suffruticosa</i> Andrew	Root barks or seeds	OA
<i>Passifloraceae</i> Juss. ex Roussel	<i>Passiflora alata</i> Curtis	Leaves	OA saponins
<i>Passifloraceae</i>	<i>Passiflora quadrangularis</i> Linn.	Leaves	OA saponins
<i>Paulowniaceae</i>	<i>Paulownia tomentosa</i> (Thunb.) Steud.	Whole plants	OA

<i>Paulowniaceae</i> Nakai.	<i>Paulownia tomentosa</i> (Thunb.) Steud. var. <i>tsinglingensis</i> Pai.	Leaves	OA
<i>Pedaliaceae</i> R. Br.	<i>Harpagophytum procumbens</i> DC.	Roots	OA
<i>Phyllanthaceae</i> Martinov. [Phyllanthaceae (Flueggeinae)]	<i>Phyllanthus amarus</i> Schum. et Thonn.	Whole plants	OA
<i>Phyllanthaceae</i> Martinov. [Phyllanthaceae (Flueggeinae)]	<i>Phyllanthus polyphyllus</i> Willd. var. <i>siamensis</i> Airy Shaw	Leaves	OA saponins
<i>Phyllanthaceae</i> [<i>Antidesmeae</i> (<i>Uapacinae</i>)]	<i>Uapaca nitida</i> Müll.- Arg.	Root barks	OA
<i>Phytolaccaceae</i> R. Br.	<i>Phytolacca americana</i> Linn.	Seeds or roots	OA
<i>Phytolaccaceae</i>	<i>Phytolacca dodecandra</i> L'Herit.	Fruit	OA saponins
<i>Phytolaccaceae</i>	<i>Phytolacca esculenta</i> Van Houtte	Roots	OA
<i>Phytolaccaceae</i>	<i>Phytolacca insularis</i> Nakai.	Roots	OA
<i>Phytolaccaceae</i>	<i>Phytolacca dioica</i> Linn.	Whole plants	OA
	<i>Phytolacca octandra</i> Linn.		
	<i>Phytolacca rivinoides</i> Kunth & C. D. Bouché		
<i>Picrodendraceae</i> Small. [<i>Caletieae</i> (<i>Caletieae</i>)]	<i>Petalostigma sericea</i> Walker	Whole plants	OA
<i>Piperaceae</i> Bercht. & J. Presl	<i>Piper betle</i> L.	Stems	OA
<i>Pittosporaceae</i> R. Br.	<i>Pittosporum brevicalyx</i> (Oliv.) Gagnep.	Barks	OA saponins
<i>Pittosporaceae</i>	<i>Pittosporum nighrensa</i> Linn.	Whole plants	OA saponins
<i>Plantaginaceae</i> Juss.	<i>Digitalis ciliata</i> Trautv	Leaves	OA saponins
<i>Plantaginaceae</i>	<i>Hemiphragma heterophyllum</i> Wallich	Whole plants	OA
<i>Plantaginaceae</i>	<i>Plantago altissima</i> Linn.	Whole plants	OA
	<i>Plantago argentea</i> Chaix.		
	<i>Plantago coronopus</i> Linn.		

	<i>Plantago holosteum</i> Linn.		
	<i>Plantago maritima</i> Linn.		
<i>Plantaginaceae</i>	<i>Plantago bismarckii</i> Niederl.	Leaves	OA
<i>Plantaginaceae</i>	<i>Plantago crassifolia</i> Forssk.	Roots	OA
<i>Plantaginaceae</i>	<i>Plantago cynops</i> Linn.	Aerial parts	OA
<i>Plantaginaceae</i>	<i>Plantago lagopus</i> Linn.	Whole plants	OA
<i>Plantaginaceae</i>	<i>Plantago major</i> Linn.	Seeds and leaves	OA
<i>Plantaginaceae</i>	<i>Plantago ovata</i> Forsk.	Aerial parts	OA
<i>Plantaginaceae</i>	<i>Plantago squarrosa</i> Murray.	Whole plants	OA
<i>Plantaginaceae</i>	<i>Scoparia dulcis</i> Linn.	Whole plants	OA
<i>Pinaceae</i> Lindl.	<i>Cedrus deodara</i> (Roxb.) G. Don.	Roots	OA
<i>Pinaceae</i>	<i>Picea jezoensis</i> (Sieb. et Zucc.) Carr.	Stem barks	OA
<i>Poaceae</i> (R. Br.)	<i>Cymbopogon distans</i> (Nees) Wats.	Whole plants	OA
Barnhart (<i>Panicoideae</i>)			
<i>Poaceae</i>	<i>Porteresia coarctata</i> (Roxb.) Tateoka	Whole plants	OA
{ <i>Bambusoideae</i>			
[<i>Oryzodae</i> (<i>Oryzaceae</i>)]}			
<i>Poaceae</i>	<i>Zea mays</i> Linn.	Styles and stigmas	OA saponins
<i>Polygalaceae</i>	<i>Polygana japonica</i> Houtt.	Whole plants	OA saponins
Hoffmanns. et Link.			
<i>Polygalaceae</i>	<i>Securidaca inappendiculata</i> Hassk.	Stems	OA
<i>Polygonaceae</i> Juss.	<i>Polygonum aviculare</i> Linn.	Whole plants	OA
<i>Polygonaceae</i>	<i>Polygonum capitatum</i> Buch.-Ham. ex D. Don	Whole plants	OA
<i>Polygonaceae</i>	<i>Polygonum cuspidatum</i> Sieb. et Zucc.	Root and rhizome	OA
<i>Polygonaceae</i>	<i>Polygonum plebejum</i> R. Br.	Flowers	OA
<i>Polygonaceae</i>	<i>Polygonatum sibiricum</i> R. Br.	Root and stems	OA saponins
<i>Polypodiaceae</i> Bercht.	<i>Pyrrosia clavata</i> (Bak.) Ching	Whole plants	OA
et J. Presl.			
<i>Portulacaceae</i> Juss.	<i>Talinum paniculatum</i> (Jacq.) Gaertn. [T. patens (Jacq.) Wild]	Whole plants	OA
<i>Portulacaceae</i>	<i>Talinum tenuissimum</i> Dinter.	Tubers	OA saponins
<i>Portulacaceae</i>	<i>Talinum triangulare</i> (Jacq.) Willd.	Roots	OA saponins
		Leaves	OA
			OA saponins
<i>Primulaceae</i> Batsch ex Borkh.	<i>Androsace septentrionalis</i> Linn.	Whole plants	OA saponins

Primulaceae	<i>Lysimachia lobelioides</i> Wall.	Whole plants	OA
Pteridaceae E. D. M. Kirchn. (Parkeriaceae)	<i>Onychium lucidum</i> (D. Don) Spreng.	Aerial parts	OA
Putranjivaceae Endl.	<i>Putranjiva roxburghii</i> Wall.	Leaves and root-barks or seed coat	OA saponins
Ranunculaceae Juss.	<i>Anemone anhuiensis</i> DA	Roots and stems	OA OA saponins
Ranunculaceae	<i>Anemone begoniifolia</i> Lévl. et Vant.	Whole plants	OA saponins
Ranunculaceae	<i>Anemone davidii</i> Franch.	Aerial parts	OA saponins
Ranunculaceae	<i>Anemone flaccida</i> Fr. Schmidt	Rhizome	OA saponins
		Whole plants	OA OA saponins
Ranunculaceae	<i>Anemone hupehensis</i> Lemonine	Whole plants	OA saponins
Ranunculaceae	<i>Anemone narcissiflora</i> L.	Whole plants	OA saponins
Ranunculaceae	<i>Anemone obtusiloba</i> D. Don.	Whole plants	OA OA saponins
Ranunculaceae	<i>Anemone raddeana</i> Regel.	Roots or rhizomes	OA OA saponins
Ranunculaceae	<i>Anemone raddeanin</i> Regel.	Roots and stems	OA saponins
Ranunculaceae	<i>Anemone rossii</i> Moore	Rhizome	OA OA saponins
Ranunculaceae	<i>Anemone tomentosa</i>	Roots	OA OA saponins
Ranunculaceae	<i>Anemone rivularis</i> Buch. Ham. ex DC.	Whole plants	OA saponins
Ranunculaceae	<i>Anemone rupestris</i> ssp. <i>gelida</i>	Whole plants	OA saponins
Ranunculaceae	<i>Beesia calthaefolia</i> (Maxim.) Ulbr.	Roots and stems rhizomes	OA saponins
Ranunculaceae	<i>Caltha palustris</i> Linn.	Stem, root and aerial parts	OA saponins
Ranunculaceae	<i>Clematis apiifolia</i> DC. <i>Clematis apiifolia</i> DC. var. <i>bitermata</i> Makino	Roots	OA
Ranunculaceae	<i>Clematis chinensis</i> Osbeck	Roots	OA OA saponins
Ranunculaceae	<i>Clematis hirsuta</i> Guill. & Perr.	Whole plants	OA
Ranunculaceae	<i>Clematis japonica</i> Thunb.	Roots	OA

<i>Ranunculaceae</i>	<i>Clematis koreana</i> var. <i>umbrosa</i> Nakai	Aerial parts	OA saponins
<i>Ranunculaceae</i>	<i>Clematis ligustifolia brevifolia</i> Nutt.	Whole plants	OA
<i>Ranunculaceae</i>	<i>Clematis mandschurica</i> Rupr.	Roots	OA OA saponins
<i>Ranunculaceae</i>	<i>Clematis manshurica</i> Rupr.	Roots	OA saponins
<i>Ranunculaceae</i>	<i>Clematis montana</i> Bush. Ham. ex DC.	Stems	OA
		Roots or leaves	OA saponins
<i>Ranunculaceae</i>	<i>Clematis montevidensis</i> Sprengel.	Whole plants	OA
<i>Ranunculaceae</i>	<i>Clematis orientalis</i> Linn.	Aerial parts and roots	OA saponins
<i>Ranunculaceae</i>	<i>Clematis paniculata</i> Thunb.	Roots	OA
<i>Ranunculaceae</i>	<i>Clematis parviloba</i> Gard. ex Champ.	Stems	OA saponins
<i>Ranunculaceae</i>	<i>Clematis patens</i> Morr. et Decne.	Roots	OA
<i>Ranunculaceae</i>	<i>Clematis stans</i> Siebold et Zucc.	Roots	OA saponins
	<i>Clematis stans</i> Siebold et Zucc. var. <i>austrojaponensis</i> (Ohwi) Ohwi.		
<i>Ranunculaceae</i>	<i>Clematis terniflora</i> DC.	Roots	OA saponins
<i>Ranunculaceae</i>	<i>Clematis uncinata</i> var. <i>ovatifolia</i> (T. Ito ex Maxim.) Ohwi ex Tamura Syn.	Roots	OA
<i>Ranunculaceae</i>	<i>Clematis vitalba</i> Linn.	Whole plants	OA OA saponins
<i>Ranunculaceae</i>	<i>Coptis teeta</i> Wall.	Rhizomes	OA
<i>Ranunculaceae</i>	<i>Nigella sativa</i> Linn.	Seeds	OA
<i>Ranunculaceae</i>	<i>Pulsatilla cernua</i> (Thunb.) Bercht. et Opiz.	Whole plant	OA saponins
<i>Ranunculaceae</i>	<i>Pulsatilla chinensis</i> (Bunge) Regel.	Roots or aerial parts	OA saponins
<i>Ranunculaceae</i>	<i>Pulsatilla davurica</i> (Fisch. ex DC.) Spreng.	Underground parts	OA
<i>Ranunculaceae</i>	<i>Pulsatilla koreana</i> Nakai.	Root	OA saponins
<i>Ranunculaceae</i>	<i>Pulsatilla</i> Mill.	Underground parts	OA saponins
<i>Ranunculaceae</i>	<i>Pulsatilla patens</i> (Linn.) Mill. var. <i>multifida</i> (Pritz.) S. H. Li et Y. Hui Huang.	Roots	OA saponins
<i>Ranunculaceae</i>	<i>Ranunculus ficaria</i> Linn.	Tubers	OA saponins
<i>Ranunculaceae</i>	<i>Ranunculus fluitans</i> Lamk.	Aquatic plant	OA saponins
<i>Ranunculaceae</i>	<i>Ranunculus ternatus</i> Thunb.	Roots	OA
<i>Ranunculaceae</i>	<i>Thalictrum foetidum</i> Linn.	Whole plants	OA saponins
<i>Ranunculaceae</i>	<i>Thalictrum minus</i> Linn.	Whole plants	OA OA saponins
<i>Rhabdodendraceae</i>	<i>Rhabdodendron macrophyllum</i> (Spruce ex Benth.) Huber.	Whole plants	OA saponins

France			
<i>Rhamnaceae</i> Juss.	<i>Discaria longispina</i> Miers	Stems and leaves	OA
<i>Rhamnaceae</i>	<i>Trevoa trinervis</i> Miers.	Aerial parts	OA
<i>Rhamnaceae</i>	<i>Zizyphus joazeiro</i> Mart.	Stem barks	OA
<i>Rhamnaceae</i>	<i>Zizyphus jujuba</i> Mill.	Leaves	OA saponins
		Fruits or seeds	OA
<i>Rhamnaceae</i>	<i>Zizyphus nummularia</i> (Burm. fil.) Wt. & Arn.	Barks	OA
<i>Rhamnaceae</i>	<i>Zizyphus rugosa</i> (Lam.) Bark.	Whole plants	OA
<i>Rhamnaceae</i>	<i>Zizyphus sativa</i> Gaertn	Fruits	OA
<i>Rhamnaceae</i>	<i>Zizyphus spina-christi</i> (Linn.) Willd.	Leaves	OA
<i>Rhamnaceae</i>	<i>Zizyphus xylopyrus</i> (Retz.) Willd.	Fruits	OA
<i>Rhizophoraceae</i> Pers	<i>Bruguiera gymnorhiza</i> (Linn.) Savigny	Leaves	OA
<i>Rhizophoraceae</i>	<i>Ceriops decandra</i> (Griff.) Ding Hou.	Leaves	OA
<i>Rhizophoraceae</i>	<i>Kandelia candel</i> (Linn.) Druce	Stem barks	OA
<i>Rhizophoraceae</i>	<i>Rhizophora apiculata</i> Bl.	Roots	OA
<i>Rhizophoraceae</i>	<i>Rhizophora mucronata</i> Poiret	Fresh mangrove leaves	OA
<i>Rosaceae</i> Juss.	<i>Acaena splendens</i> H. et A.	Whole plants	OA
<i>Rosaceae</i>	<i>Agrimonia pilosa</i> Ledeb.	Aerial parts	OA
<i>Rosaceae</i>	<i>Alchemilla alpina</i> L.	Aerial parts	OA
<i>Rosaceae</i>	<i>Alchemilla faeroensis</i> (Lange) Buser	Aerial parts	OA
<i>Rosaceae</i>	<i>Alchemilla pastoralis</i> Buser.	Whole plants	OA
<i>Rosaceae</i>	<i>Alchemilla vulgaris</i> L.	Aerial parts	OA
<i>Rosaceae</i>	<i>Amelanchier canadensis</i> L.	Fruits	OA
<i>Rosaceae (Maloideae)</i>	<i>Chaenomeles japonica</i> (Thunb.) Lindl. ex Sapch.	Roots	OA
<i>Rosaceae (Maloideae)</i>	<i>Chaenomeles lagenaria</i> (Loisel.) Koidz	Fruits	OA
<i>Rosaceae</i>	<i>Chaenomeles speciosa</i> (Sweet) Nakai	Fruits	OA
<i>Rosaceae (Maloideae)</i>	<i>Chaenomeles sinensis</i> (Thouin.) Koehne	Fruits	OA
<i>Rosaceae (Maloideae)</i>	<i>Cotoneaster adpressus</i> Bois. cv. Praecox	Aerial parts	OA
<i>Rosaceae (Maloideae)</i>	<i>Crataegus</i> Tourn. ex L.	Tincture	OA
<i>Rosaceae (Maloideae)</i>	<i>Crataegus atrofusca</i> (C. Koch) Kassumova.	Leaves, flowers and fruit	OA
	<i>C. azarella</i> Griseb.		
	<i>C. ceratocarpa</i> Kossyck.		

	<i>C. curvisepala</i> Lindm.		
	<i>C. dipyrena</i> Pojark.		
	<i>C. karadaghensis</i> Pojark.		
	<i>C. microphylla</i> C. Koch.		
	<i>C. orientalis</i> Pall. ex M. Bieb.		
	<i>C. pojarkoviae</i> Kossysch.		
	<i>C. sphaenophylla</i> Pojark.		
	<i>C. stankovii</i> Kossyich.		
	<i>C. stevenii</i> Pojark.		
	<i>C. taurica</i> Pojark.		
	<i>C. tournefortii</i> Griseb.		

<i>Rosaceae (Maloideae)</i>	<i>Crataegus cuneata</i> Sieb. et Zucc.	Whole plants	OA
<i>Rosaceae (Maloideae)</i>	<i>Crataegus monogyna</i> Jacq.	Leaves, flowers and fruit	OA
<i>Rosaceae (Maloideae)</i>	<i>Crataegus oxyacantha</i> Linn.	Fruit or leaves	OA
<i>Rosaceae (Maloideae)</i>	<i>Crataegus pentagyna</i> Waldst. et Kit. ex Willd.	Whole plants	OA saponins
		Leaves, flowers and fruit	OA
<i>Rosaceae (Maloideae)</i>	<i>Crataegus pinnatifida</i> Bunge	Fruits	OA
<i>Rosaceae (Maloideae)</i>	<i>Cydonia sinensis</i> (Thouin) Koehne	Whole plants	OA
<i>Rosaceae</i>	<i>Dryas octopetala</i> Linn.	Leaves	OA
<i>Rosaceae</i>	<i>Duchesnea indica</i> Focke.	Whole plants	OA
<i>Rosaceae (Maloideae)</i>	<i>Eriobotrya japonica</i> (Thunb.) Lindl.	Flowers or leaves	OA
<i>Rosaceae (Maloideae)</i>	<i>Geum rivale</i> Linn.	Whole plants	OA
<i>Rosaceae</i>	<i>Kageneckia angustifolia</i> D. Don	Aerial parts	OA
<i>Rosaceae (Maloideae)</i>	<i>Malus pumila</i> Mill.	Leaves or peel	OA
<i>Rosaceae</i>	<i>Physocarpus intermedius</i> (Rydb.) C. K. Schneid.	Stem barks	OA

(Spiraeoideae)			
Rosaceae (Rosoideae)	<i>Potentilla anserine</i> Linn.	Roots	OA saponins
Rosaceae (Rosoideae)	<i>Potentilla chinensis</i> Seringe	Whole plants	OA
Rosaceae (Rosoideae)	<i>Potentilla discolor</i> Bunge.	Whole plants	OA
Rosaceae (Rosoideae)	<i>Potentilla multicaulis</i> Bunge	Whole plants	OA
Rosaceae	<i>Prinsepia utilis</i> Royle	Leaves	OA
Rosaceae (Prunoideae)	<i>Prunus africana</i> (Hook. f.) Kalkman.	Barks	OA OA saponins
Rosaceae (Prunoideae)	<i>Prunus amygdalus</i> Dulcis	Hulls	OA
Rosaceae (Prunoideae)	<i>Prunus avium</i> Linn.	Fruit	OA
Rosaceae (Prunoideae)	<i>Prunus domestica</i> Linn.	Cuticular wax	OA
Rosaceae (Prunoideae)	<i>Prunus dulcis</i> (Mill.) D. A. Webb	Hulls or crops	OA
Rosaceae (Prunoideae)	<i>Prunus laurocerasus</i> Linn.	Leaves	OA
Rosaceae (Prunoideae)	<i>Prunus mume</i> Sieb. et Zucc.	Fruit or stems	OA
Rosaceae (Prunoideae)	<i>Prunus spinosa</i> Linn.	Flowers	OA
Rosaceae (Prunoideae)	<i>Prunus zippeliana</i> Miq.	Leaves and branches	OA
Rosaceae	<i>Pyrus bretschneideri</i> Rehd.	Whole plants	OA
Rosaceae	<i>Pyrus communis</i> Linn.	Flowers	OA
Rosaceae	<i>Pyrus malus</i> Linn.	Leaves	OA
Rosaceae (Rosoideae)	<i>Rosa bella</i> Rehd. et Wils.	Fruits	OA
Rosaceae (Rosoideae)	<i>Rosa bracteata</i> Wendl. var. <i>bracteata</i>	Fruits	OA
Rosaceae (Rosoideae)	<i>Rosa canina</i> L.	Flowers	OA
Rosaceae (Rosoideae)	<i>Rosa davidii</i> Crep.	Fruits	OA
Rosaceae (Rosoideae)	<i>Rosa davurica</i> Pall.	Mature fruits or roots	OA
Rosaceae (Rosoideae)	<i>Rosa gallica</i> Linn.	Flowers	OA saponins
Rosaceae (Rosoideae)	<i>Rosa laevigata</i> Michx.	Aerial parts	OA
Rosaceae (Rosoideae)	<i>Rosa multiflora</i> Thunb.	Whole plants	OA
Rosaceae (Rosoideae)	<i>Rosa omeiensis</i> Rolfe Rhed. et Wils.	Fruits	OA
Rosaceae (Rosoideae)	<i>Rosa sericea</i> Lindl.	Fruits	OA
Rosaceae (Rosoideae)	<i>Rosa soulieana</i> Crép	Fruits	OA
	<i>Rosa multibracteata</i> Helms. et E. H. Wils.		
Rosaceae (Rosoideae)	<i>Rosa taiwanensis</i> Nakai.	Root and aerial parts	OA
Rosaceae (Rosoideae)	<i>Rosa transmorrisonensis</i> Hayata.	Aerial parts	OA
Rosaceae (Rosoideae)	<i>Rosa woodsii</i> Lindl.	Leaves	OA
Rosaceae	<i>Rubus aleaefolius</i> Poir.	Roots	OA
Rosaceae	<i>Rubus biflorus</i> Buch.	Roots	OA

<i>Rosaceae</i>	<i>Rubus chingii</i> Hu.	Fruits	OA
<i>Rosaceae</i>	<i>Rubus idaeus</i> Linn.	Epicuticular wax from red raspberry	OA
<i>Rosaceae</i>	<i>Rubus niveus</i> Thunb.	Aerial parts	OA
<i>Rosaceae</i>	<i>Rubus parkeri</i> Hance.	Roots	OA
<i>Rosaceae</i>	<i>Rubus irritans</i> Focker.	Aerial parts	OA
	<i>Rubus pileatus</i> Focke.		
<i>Rosaceae (Maloideae)</i>	<i>Sorbus aria</i> (Linn.) Crantz.	Buds	OA
<i>Rosaceae (Rosoideae)</i>	<i>Tetraglochin cristatum</i> (Britton) Rothm.	Whole plants	OA
<i>Rosaceae [Spiraeoideae (Spiraeae)]</i>	<i>Tripetaleia paniculata</i> (Linn.) Siebold et Zuccarini	Wood or flowers	OA
<i>Rosaceae [Spiraeoideae (Spiraeae)]</i>	<i>Triplostegia grandiflora</i> Gagnep.	Roots	OA saponins
<i>Rubiaceae</i>	<i>Alibertia macrophylla</i> K. Schum.	Stems	OA
<i>Rubiaceae</i>	<i>Bouvardia ternifolia</i> (Cav.) Schldtl.	Stems	OA
<i>Rubiaceae</i>	<i>Brenania brieyi</i> de Wild.	Fruit pericarps	OA
<i>Rubiaceae</i>	<i>Canthium diococcum</i> (Gaertn.) Merr.	Barks	OA
<i>Rubiaceae</i>	<i>Catunaregam nilotica</i> (Stapf) Tirveng.	Fruits	OA saponins
<i>Rubiaceae</i>	<i>Chiococca braquiata</i> Ruiz et Pav.	Leaves	OA
<i>Rubiaceae</i>	<i>Chomelia obtusa</i> Cham. & Schldtl.	Leaves	OA
<i>Rubiaceae</i>	<i>Coussarea paniculata</i> (Vahl) Standl.	Twigs	OA
<i>Rubiaceae</i>	<i>Exostema coulteri</i> (Hooker f.) T. McDowell	Aerial parts	OA
<i>Rubiaceae</i>	<i>Fadogia ancylantha</i> Schweinf.	Leaves	OA saponins
<i>Rubiaceae</i>	<i>Galium tortumense</i> Ehrend. et Schön.-Tem.	Aerial parts	OA
<i>Rubiaceae</i>	<i>Gardenia erubescens</i> Stapf .et Hutch.	Whole plants	OA
<i>Rubiaceae</i>	<i>Gardenia jovis-tonantis</i> (Welw.) Hiern.	Root barks	OA
<i>Rubiaceae</i>	<i>Gardenia latifolia</i> Solander	Whole plants	OA
<i>Rubiaceae</i>	<i>Gardenia lutea</i> Fresen.	Fruit pulp	OA saponins
<i>Rubiaceae</i>	<i>Gardenia saxatilis</i> Geddes.	Twigs	OA
<i>Rubiaceae</i>	<i>Gardenia turgida</i> Roxb.	Roots	OA
<i>Rubiaceae</i>	<i>Hedyotis acutangula</i> Champ.	Whole plants	OA
<i>Rubiaceae</i>	<i>Hedyotis auricularia</i> Linn.	Whole plants	OA
<i>Rubiaceae</i>	<i>Hedyotis biflora</i> (Linn.) Lamk.	Whole plants	OA
<i>Rubiaceae</i>	<i>Hedyotis capitellata</i> (Linn.) F-Muell.	Leaves	OA
<i>Rubiaceae</i>	<i>Hedyotis chrysotricha</i> (Palib.) Merr.	Whole plants	OA
<i>Rubiaceae</i>	<i>Hedyotis crassifolia</i> Linn.	Whole plants	OA

Rubiaceae	<i>Hedyotis diffusa</i> Willd.	Whole plants	OA
Rubiaceae	<i>Hedyotis intricata</i> Fosberg	Whole plants	OA
Rubiaceae	<i>Hedyotis nigricans</i> (Lamarck) Fosberg	Whole plants	OA
Rubiaceae	<i>Lxora coccinea</i> Linn.	Air-dried flowers	OA
Rubiaceae	<i>Meyna laxiflora</i> Robyns	Leaves	OA saponins
Rubiaceae	<i>Meyna spinosa</i> Roxb. ex Link.	Fruits	OA
Rubiaceae (Rubioideae)	<i>Mitracarpus scaber</i> Zucc.	Whole plants	OA
Rubiaceae	<i>Mitragyna speciosa</i> (Vault) Korth.	Roots	OA
Rubiaceae	<i>Mitragyna stipulosa</i> (DC.) O. Kuntze.	Barks	OA
Rubiaceae	<i>Morinda citrifolia</i> Linn.	Leaves	OA
Rubiaceae	<i>Morinda lucida</i> Benth.	Leaves	OA
Rubiaceae(Rubioideae)	<i>Mussaenda hainanensis</i> Merr.	Whole plants	OA
Rubiaceae (Rubioideae)	<i>Mussaenda pubescens</i> Ait. f.	Aerial parts	OA saponins
Rubiaceae	<i>Nauclea orientalis</i> Linn.	Stems	OA
Rubiaceae (Rubioideae)	<i>Oldenlandia corymbosa</i> Linn.	Whole plants	OA
Rubiaceae(Rubioideae)	<i>Oldenlandia diffusa</i> (Willd.) Roxb.	Whole plants	OA
Rubiaceae (Rubioideae)	<i>Oldenlandia retrorsa</i> Boiss.	Whole plants	OA
Rubiaceae (Rubioideae)	<i>Oldenlandia diffusa</i> (Willd.) Roxb.	Whole plants	OA
Rubiaceae (Rubioideae)	<i>Paederia chinensis</i> Hance.	Fruit	OA
Rubiaceae (Rubioideae)	<i>Paederia scandense</i> (Lour.) Merr.	Whole plants	OA
Rubiaceae (Rubioideae)	<i>Paeonia lactiflora</i> Pall.	Roots	OA
Rubiaceae	<i>Ploclama pendula</i> Aiton	Wood	OA
Rubiaceae	<i>Prismatomeris tetrandra</i> (Roxb.) K. Schum.	Leaves	OA
Rubiaceae	<i>Prosopis glandulosa</i> Torrey	Leaves and twigs or stems	OA
[Mimosoideae (Mimoseae)]			
Rubiaceae	<i>Putoria calabrica</i> (Linn. fil.) DC.	Whole plants	OA
Rubiaceae	<i>Randia dumetorum</i> (Retz.) Lam.	Fruits, root barks or stem heartwood	OA OA saponins
Rubiaceae	<i>Randia siamensis</i> Craib.	Roots or fruits	OA OA saponins
Rubiaceae	<i>Randia spinosa</i> (Thunb.) Poir.	Whole plants	OA
Rubiaceae	<i>Randia tetrasperma</i> (Roxb.) Benth. et Hook. f. ex Brandis.	Fruits	OA
Rubiaceae	<i>Randia uliginosa</i> (Retz.) Poir.	Fruits	OA
Rubiaceae	<i>Richardia brasiliensis</i> Gomes	Whole plants	OA
Rubiaceae (Rubioideae)	<i>Rubia cordifolia</i> Linn.	Roots	OA

Rubiaceae (Rubiodeae)	<i>Rubia peregrina</i> Linn.	Leaves	OA
Rubiaceae	<i>Rudgea jasminoides</i> (Cham.) Müll. Arg.	Leaves	OA
Rubiaceae	<i>Scyphiphora hydrophyllacea</i> Gaertn. F.	Branches or stem barks	OA
Rubiaceae	<i>Serissa serissoides</i> (DC.) Druce.	Leaves or roots	OA
Rubiaceae	<i>Tricalysia niammiamensis</i> Schweinf. ex Hiern	Whole plants	OA
Rubiaceae	<i>Uncaria tomentosa</i> (Willd. ex Schult.) DC.	Whole plants	OA
Rubiaceae	<i>Uncaria yunnanensis</i> Hsia. C. C.	Roots	OA
Rubiaceae	<i>Warszewiczia coccinea</i> (Vahl.) Klotzsch	Flowers	OA saponins
Rubiaceae	<i>Xeromphis nilotica</i> (Stapf) Keay	Barks	OA saponins
Rubiaceae	<i>Xeromphis spinosa</i> (Thunb.) Keay	Leaves	OA saponins
Ruscaceae Spreng.	<i>Ophiopogon japonicus</i> (Linn. f.) Ker-Gawl.	Tubers or rhizomes	OA
Rutaceae Juss.	<i>Evodla ailanyifoliae</i> Hierre. Fl. For. Cochinch.	Whole plants	OA
Rutaceae	<i>Evodia rutaecarpa</i> (Juss.) Benth.	Fruits	OA
Rutaceae	<i>Haplophyllum acutifolium</i> (DC.) G. Don.	Whole plants	OA
Rutaceae	<i>Oricia suaveolens</i> (Engl.) Verdoorn	Whole plants	OA
Rutaceae	<i>Oriciopsis glaberrima</i> Engl.	Stem barks	OA
Rutaceae	<i>Ruta graveolens</i> Linn.	Whole plants	OA saponins
Sabiaceae	<i>Sabia parviflora</i> Wall. ex Roxb.	Whole plants	OA
Sabiaceae	<i>Sabia swinhoei</i> Hemsl. ex Forb. et Hemsl.	Aerial parts	OA
Sabiaceae	<i>Sabia yunnanensis</i> Franch.	Stems and leaves	OA
Sapindaceae Juss.	<i>Aesculus punduana</i> Wall. ex Hiern	Seeds	OA saponins
Sapindaceae	<i>Blighia sapida</i> J. König	Fresh fruit	OA saponins
Sapindaceae	<i>Brazilian Serjania</i>	Whole plants	OA
Sapindaceae	<i>Dodonaea madagascariensis</i> Radlk.	Leaves	OA saponins
Sapindaceae	<i>Eriocoelum microspermum</i> Radlk. ex de Wild	Root barks	OA
Sapindaceae	<i>Haplocoelum congolanum</i> Hauman	Root barks	OA
Sapindaceae	<i>Laccodiscus pseudostrigularis</i> Radlk.	Trunk barks	OA
Sapindaceae	<i>Lecaniodiscus cupanoides</i> Planch.	Root barks	OA saponins
Sapindaceae	<i>Pometia pinnata</i> J. R. et G. Forst.	Stem barks	OA OA saponins
		Wood	OA saponins
Sapindaceae	<i>Pometia ridleyi</i> King	Stem barks	OA saponins
Sapindaceae	<i>Sapindus emarginatus</i> Vahl.	Pericaps	OA saponins
Sapindaceae	<i>Sapindus mukorossi</i> Gaertn.	Whole plants	OA saponins
Sapindaceae	<i>Sapindus saponaria</i> Linn.	Pulp of fruits	OA saponins

<i>Sapindaceae</i>	<i>Sapindus trifoliatus</i> Linn	Whole plants	OA saponins
<i>Sapindaceae</i>	<i>Serjania salzmanniana</i> Schldtl.	Whole plants	OA saponins
<i>Sapindaceae</i>	<i>Serjania triquetra</i> Radlk.	Aerial parts	OA
<i>Sapindaceae</i>	<i>Thinouia coriacea</i> Britton.	Stems	OA saponins
<i>Sapindaceae</i>	<i>Xanthoceras sorbifolia</i> Bunge.	Wood	OA
<i>Sapindaceae</i>	<i>Xerospermum noronhianum</i> (Blume) Blume	Whole plants	OA saponins
<i>Santalaceae</i> R. Br.	<i>Exocarpus cupressiformis</i> Labill.	Foliage	OA
<i>Santalaceae</i> (<i>Viscaceae</i>)	<i>Korthalsella japonica</i> (Thunb.) Engl.	Whole plants	OA
<i>Santalaceae</i>	<i>Phoradendron greggii</i> Trel.	Whole plants	OA
<i>Santalaceae</i>	<i>Phoradendron juniperinum</i> Engelm. ex Gray	Leaves and stems	OA
<i>Santalaceae</i>	<i>Phoradendron coryae</i> Trel.	Aerial parts	OA
<i>Santalaceae</i>	<i>Quinchamalium majus</i> Brongn. En Duperr.	Aerial parts and roots	OA
<i>Santalaceae</i>	<i>Viscum album</i> Linn.	Leaves	OA
<i>Santalaceae</i>	<i>Viscum album</i> Linn. var. <i>coloratum</i> (Kom.) Ohwi.	Whole plants	OA
<i>Santalaceae</i>	<i>Viscum angulatum</i> Heyne ex DC.	Fruits	OA
<i>Santalaceae</i>	<i>Viscum articulatum</i> Burm. f.	Whole plants	OA
<i>Santalaceae</i>	<i>Viscum coloratum</i> (Kom.) Nakai.	Stems and leaves	OA
<i>Santalaceae</i>	<i>Viscum cruciatum</i> Sieber ex Boiss.	Cuticular waxes	OA
<i>Santalaceae</i>	<i>Viscum liquidam</i> Baricolum	Whole plants	OA
<i>Santalaceae</i>	<i>Viscum multinerve</i> (Hayata) Hayata	Leaves	OA
<i>Santalaceae</i>	<i>Viscum nudum</i> Danser	Stems	OA
<i>Santalaceae</i>	<i>Viscum ovalifolium</i> Wall. et DC.	Whole plants	OA
<i>Santalaceae</i>	<i>Viscum coloratum</i> (Kom.) Nakai	Whole plants	OA
<i>Sapotaceae</i> Juss.	<i>Gambeya boukokoensis</i> Aubrév. & Pellegr.	Stem barks	OA
<i>Sapotaceae</i>	<i>Madhuca butyracea</i> (Roxb.) J. F. Macbride	Fruit pulp and barks	OA
<i>Sapotaceae</i>	<i>Madhuca latifolia</i> (Roxb.) J. F. Macbride	Trunk barks	OA
<i>Saururuacea</i> Martinov	<i>Houttuynia cordata</i> Thunb.	Whole plants	OA
<i>Saxifragaceae</i> Juss.	<i>Aceriphyllum rossii</i> Engler	Whole plants	OA
<i>Saxifragaceae</i>	<i>Rodgersia sambucifolia</i> Hemsl.	Roots	OA
<i>Saxifragaceae</i>	<i>Tiarella polyphylla</i> D. Don.	Whole plants	OA saponins
<i>Scrophulariaceae</i> Juss.	<i>Buddleja lindleyana</i> Fortune	Whole plants	OA
<i>Scrophulariaceae</i>	<i>Craterostigma plantagineum</i> Hochst	Calli and leaves	OA
<i>Scrophulariaceae</i>	<i>Lancea tibetica</i> Hook. f et Thoms.	Whole plants	OA
<i>Scrophulariaceae</i>	<i>Lindenbergia indica</i> (Linn.) Vatke.	Whole plants	OA
<i>Scrophulariaceae</i>	<i>Scrophularia grossheimi</i> Figwort	Whole plants	OA saponins
<i>Scrophulariaceae</i>	<i>Verbascum thapsus</i> Linn.	Whole plants	OA
<i>Simaroubaceae</i> DC.	<i>Picramnia sellowii</i> G. Planchon in Hook.	Aerial parts	OA

<i>Smilacaceae</i> Vent.	<i>Smilax roxburghiana</i> Wall.	Whole plants	OA
<i>Solanaceae</i> Juss.	<i>Anthocercis littorea</i> Labill.	Whole plants	OA
<i>Solanaceae</i>	<i>Anthocercis odgersii</i> F. Muell.	Whole plants	OA
<i>Solanaceae</i>	<i>Atropa acuminata</i> Royle ex Lindl.	Roots	OA
<i>Solanaceae</i>	<i>Brunfelsia nitida</i> Benth.	Whole plants	OA
<i>Solanaceae</i>	<i>Cestrum kunthii</i> Francey	Whole plants	OA
<i>Solanaceae</i>	<i>Duboisia leichhardtii</i> F. V. Muell.	Shoot	OA
(Cestroideae)			
<i>Solanaceae</i>	<i>Fabiana imbricata</i> Ruiz. et Pavón	Shoots, calli, roots, or leaves and stalks	OA
<i>Solanaceae</i>	<i>Fabiana patagonica</i> Speg.	Metabolite	OA
<i>Solanaceae</i>	<i>Nierembergia hippomanica</i> Miers.	Whole plants	OA
<i>Solanaceae</i>	<i>Petunia patagonica</i> (Speg.) Millán Origen	Whole plants	OA
<i>Solanaceae</i>	<i>Physalis angulata</i> Linn.	Whole plants	OA
<i>Solanaceae</i>	<i>Vestia lycioides</i> Willd.	Aerial parts	OA
<i>Solanaceae</i>	<i>Withania adpressa</i> (Coss.) Batt.	Leaves	OA
<i>Soleriaceae</i> Wynne.	<i>Meristotheca senegalensis</i> J. Feldmann.	Whole plants	OA
<i>Staphyleaceae</i> Martinov	<i>Euscaphis japonica</i> (Thunb.) Kanitz.	Pericarps of capsules	OA
<i>Styracaceae</i> DC. et Spreng.	<i>Styrax tonkinensis</i> (Pierre) Craib ex Hartw.	Resins	OA
<i>Symplocaceae</i> Jacq.	<i>Symplocos glomerata</i> King ex Gamble ssp. congesta (Benth.) Noot.	Stem barks	OA saponins
<i>Symplocaceae</i>	<i>Symplocos racemosa</i> Roxb.	Stem barks	OA
<i>Tephritidae</i> Voir.	<i>Bactrocera oleae</i> Gmelin	Fruits	OA
<i>Tetracentraceae</i> A. C. Sm.	<i>Tetracentron sinense</i> Oliv.	Stem Barks	OA
<i>Theaceae</i> Mirb.	<i>Camellia oleifera</i> C. Abel	Leaves	OA
<i>Theaceae</i>	<i>Camellia pitardii</i> Cohen Stuart	Leaves	OA
<i>Theaceae</i>	<i>Camellia sasanqua</i> Thunb.	Seeds	OA
<i>Theaceae</i>	<i>Camellia sinensis</i> (L.) Kuntze	Seeds	OA
<i>Theaceae</i>	<i>Ternstroemia japonica</i> Thunb.	Leaves	OA
<i>Thymelaeaceae</i> Juss.	<i>Daphne giraldii</i> Nitsche.	Roots	OA
<i>Thymelaeaceae</i>	<i>Daphne mucronata</i> Royle.	Whole plants	OA
<i>Thymelaeaceae</i>	<i>Daphne oleoides</i> Schreb.	Whole plants	OA
<i>Thymelaeaceae</i>	<i>Daphne papyracea</i> Wall. ex. Steud.	Whole plants	OA
<i>Thymelaeaceae</i>	<i>Thymelaea microphylla</i> Coss. & Dur. Metnan.	Aerial parts	OA
<i>Trochodendraceae</i>	<i>Tetracentron sinense</i> Oliv.	Stems	OA

Eichler.			
<i>Trochodendraceae</i>	<i>Trochodendron aralioides</i> Sieb. et Zucc.	Leaves	OA
<i>Ulmaceae</i>	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	Heartwood	OA
<i>Ulmaceae</i>	<i>Ulmus pumila</i> Linn.	Root barks	OA
<i>Ulmaceae</i>	<i>Ulmus uyematsui</i> Hayata	Heartwood	OA
<i>Ulvaceae</i> Lamouroux	<i>Ulva fasciata</i> Delile	Whole plants	OA
ex Dumortier			
<i>Urticaceae</i> Juss.	<i>Boehmeria caudate</i> Sw.	Roots	OA saponin
<i>Urticaceae</i>	<i>Boehmeria nivea</i> (L.) Gaudich.	Roots	OA
<i>Urticaceae</i>	<i>Boehmeria platyphylla</i> D Don.	Leaves and twigs	OA
<i>Urticaceae</i>	<i>Debregeasia salicifolia</i> (D. Don) Rendle	Stems	OA
<i>Urticaceae</i>	<i>Musanga cecropioides</i> R. Brown.	Stem barks	OA
(Moraceae or Cecropiaceae)			
<i>Urticaceae</i>	<i>Urtica dioica</i> Linn.	Roots	OA
<i>Urticaceae</i>	<i>Urtica fissa</i> E. Pritz.	Roots	OA
<i>Usneaceae</i>	<i>Usnea longissima</i> Ach.	Whole plants	OA
<i>Valerianaceae</i> Batsch.	<i>Centranthus longiflorus</i> Steven.	Aerial parts	OA
<i>Valerianaceae</i>	<i>Nardostachys chinensis</i> Batalin.	underground parts	OA
<i>Valerianaceae</i>	<i>Patrinia heterophylla</i> Bunge.	Stems and roots	OA saponins
<i>Valerianaceae</i>	<i>Patrinia intermedia</i> (Hornem.) Roem. et Schult.	Roots	OA OA saponins
<i>Valerianaceae</i>	<i>Patrinia scabiosaefolia</i> Fisch. ex Link.	Root, seeds, rhizomes or stems	OA OA saponins
<i>Valerianaceae</i>	<i>Patrinia scabra</i> Bunge	Roots	OA
<i>Valerianaceae</i>	<i>Patrinia villosa</i> (Thunb.) Juss.	Whole plants	OA
<i>Valerianaceae</i>	<i>Valeriana laxiflora</i> DC.	Above ground biomass and roots	OA
<i>Verbanaceae</i> Vermifuge.	<i>Duranta plumeri</i> Linn.	Fruits	OA
<i>Verbanaceae</i>	<i>Duranta repens</i> Linn.	Whole plants	OA
<i>Verbenaceae</i> Jaume	<i>Aloysia gratissima</i> (Gillies & Hook.) Tronc.	Aerial parts	OA
Saint-Hilaire			
<i>Verbenaceae</i>	<i>Bouchea fluminensis</i> (Vell.) Moldenke	Leaves	OA
<i>Verbenaceae</i>	<i>Callicarpa arborea</i> Roxb.	Leaves and heartwood	OA
<i>Verbenaceae</i>	<i>Callicarpa cathayana</i> H. T. Chang	Whole plants	OA
<i>Verbenaceae</i>	<i>Callicarpa japonica</i> Thunb. var. <i>luxurians</i> Rehd.	Leaves	OA

Verbenaceae	<i>Callicarpa kochiana</i> Makino	Leaves	OA
Verbenaceae	<i>Callicarpa kwangtungensis</i> Chun.	Aerial parts	OA
Verbenaceae	<i>Callicarpa macrophylla</i> Vahl.	Fruits	OA
Verbenaceae	<i>Callicarpa macrophylla</i> DC.	Whole plants	OA
Verbenaceae	<i>Callicarpa nudiflora</i> Hook. ex Arn.	Whole plants	OA
Verbenaceae	<i>Caryopteris terniflora</i> Maxim.	Whole plants	OA
Verbenaceae	<i>Clerodendron inerme</i> (Linn.) Gaetn.	Leaves and stems	OA
Verbenaceae	<i>Clerodendron serratum</i> Spreng.	Barks	OA
Verbenaceae	<i>Clerodendrum tomentosum</i> (Vent.) R. Br.	Leaves	OA
Verbenaceae	<i>Duranta repens</i> L.	Leaves	OA
Verbenaceae	<i>Junellia aspera</i> Gillies ex Hook	Aerial part	OA
Verbenaceae	<i>Junellia seriphoides</i>	Aerial parts	OA
Verbenaceae	<i>Junellia spissa</i> (Sandwith) Moldenke	Aerial parts	OA
Verbenaceae	<i>Junellia tetragonocalyx</i> (Tronc.) Moldenke	Aerial parts	OA
Verbenaceae	<i>Junellia tridens</i> (Kuntze) Moldenke	Aerial parts	OA
Verbenaceae	<i>Lampaya hieronymi</i> Schum. ex Moldenke	Aerial parts	OA
Verbenaceae	<i>Lantana aculeata</i> L.	Roots	OA
Verbenaceae	<i>Lantana camara</i> Linn.	Leaves, stems or roots	OA
Verbenaceae	<i>Lantana hispida</i> Kunth.	Aerial parts	OA
Verbenaceae	<i>Lantana horrida</i> Kunth.	Aerial parts	OA
Verbenaceae	<i>Lantana indica</i> Roxb.	Roots	OA
Verbenaceae	<i>Lantana tiliaefolia</i> Cham.	Whole plants	OA
Verbenaceae	<i>Lantana urticoides</i> Hayek.	Aerial parts	OA
Verbenaceae	<i>Lippia triphylla</i> (L'Her.) O.Kuntze	Aerial parts	OA
Verbenaceae	<i>Verbena littoralis</i> H. B. Kunth.	Aerial parts	OA
Verbenaceae	<i>Verbena officinalis</i> Linn.	Aerial parts	OA
Violaceae Batsch.	<i>Viola hondoensis</i> W. Becker et H. Boss.	Whole plants	OA saponins
Violaceae	<i>Viola ibukiana</i> Makino	Whole plants	OA saponins
Vitaceae Juss.	<i>Ampelopsis brevipedunculata</i> (Maxim.) Trauty	Roots	OA
Vitaceae	<i>Ampelopsis grossedentata</i> (Hand.-Mazz.)W.T.Wang.	Whole plants	OA
Vitaceae	<i>Ampelopsis japonica</i> (Thunb.) Makino	Roots	OA saponins
Vitaceae	<i>Ampelopsis megalophylla</i> Diels et. Gilg	Whole plants	OA
Vitaceae	<i>Rhoicissus tridentate</i> (Linn.) Willd. et Drumm.	Roots	OA
Vitaceae	<i>Vitis amurensis</i> Rupr.	Frutis	OA
Vitaceae	<i>Vitis hybrids</i> Hirabayashi	Leaves	OA
Vitaceae	<i>Vitis labruscana</i> Bailey	Leaves	OA

Vitaceae	<i>Vitis rupestris</i> Schelle	Leaves	OA
Vitaceae	<i>Vitis vinifera</i> L.	Pericarps of fruits, stems, seeds or leaves	OA
		Fruits	OA saponins
Vitaceae	<i>Vitis vinifera</i> Linn. cv. <i>Fortana</i>	Pulp and skin	OA
Vochysiaceae A. St-Hil.	<i>Qualea grandiflora</i> Mart.	Leaves	OA
Vochysiaceae	<i>Vochysia ferruginea</i> (Mart.) Spreng.	Leaves and fruits	OA
Winteraceae R. Br. ex Lindley	<i>Drimys winteri</i> J. R. Forst. & G. Forst.	Barks	OA
Zosteropidae Bonaparte	<i>Woodfordia fruticosa</i> (Linn.) Kurz.	Leaves	OA
Zygophyllaceae R. Br.	<i>Fagonia arabica</i> Linn.	Aerial parts	OA saponins
Zygophyllaceae	<i>Fagonia bruguieri</i> DC.	Whole plants	OA saponins
Zygophyllaceae	<i>Fagonia cretica</i> Linn.	Aerial parts	OA saponins
Zygophyllaceae	<i>Fagonia glutinosa</i> Delile	Aerial parts	OA OA saponins
Zygophyllaceae	<i>Fagonia indica</i> Burm. fil.	Whole plants	OA OA saponins
Zygophyllaceae	<i>Fagonia mollis</i> Delile	Aerial parts	OA saponins
Zygophyllaceae	<i>Guaiacum officinale</i> Linn.	Stem barks, pericarp of fruits, flowers or leaves	OA OA saponins
Zygophyllaceae	<i>Porlieria angustifolia</i> (Engelm.) Grayacan	Roots	OA
Zygophyllaceae	<i>Porlieria chilensis</i> I. M. Johnst.	Whole plants	OA saponins
Zygophyllaceae	<i>Zygophyllum album</i> Linn.	Aerial parts	OA saponins
Zygophyllaceae	<i>Zygophyllum fabago</i> Linn.	Aerial parts	OA
Zygophyllaceae	<i>Zygophyllum obliquum</i> Popov.	Whole plants	OA saponins

Conclusion

There are 158 families, 767 genera and 1710 species of natural products isolated OA up to Aug 2010. This elucidates the presence of oleanolic acid based on scientific findings.

Reference

- [1]. YEUNG Ming Fai. A review on presence of Oleanolic acid in natural products. *Natura Proda Medica*, **2009**, 2, 80-292.
- [2]. YEUNG Ming Fai. A review on isolation of Oleanolic acid in Natural Products from 2007 to Aug 2010. *Natura Proda Medica*, **2010**, Preliminary, 11-47