

**Index to New updated names of the Flora of Libya****Volume 1**Rafaa A. Essokne<sup>1\*</sup>, Mohammed H. Mahklouf<sup>2</sup>,

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**Abstract:** After many recent findings regarding geographical distribution and nomenclatural changes, an updated and revised checklist of the Libyan flora was needed. This study provides an up-to-date checklist of vascular taxa exclusive to Libyan Flora. six hundred and fourteen species of vascular plants belonging to 150 families were recorded and arranged as in Flora of Libya started from Primulaceae to Flacourtiaceae and divided into Two volumes, volume one started from Primulaceae to Solanaceae, which contains 301 updated species, followed by volume two started from Caryophyllaceae to Flacourtiaceae which currently under review and will be published after completion.

**Keywords:** Flora Libya, Update, New Name, Species, Families.

**Introduction:**

Libya occupies an area of about 1,775,000 km<sup>2</sup> in North Africa, between 20°—30° N latitude and 9°—25° E longitude. The coastal belt which extends from the Tunisian to the Egyptian borders is about 5.2 % of the whole region (Boulos, 1972). The history of plant exploration in Libya has been dealt with a number of workers such as Durand and Barratte (1910), Pampanini (1914) and Boulos (1972). Prior to the publication of Flora of Libya by Ali and Jafri (1976-77), there was no adequate Flora available for the whole area of Libya. The exceptions were some regional lists by Viviani (1824), Durand and Barratte (1910), Pampanini (1931), Corti (1942) and Kieth (1965).

This study is based on the analysis of flora of Libya by Ali and Jafri (1976- 1977) and Klopper *et al.* (2007). There are 2103 species belonging to 856 genera and 155 families in Libya. The main

component of the flora, 2088 species, 844 genera and 145 families, are angiosperms. Fifteen species of 12 genera and 10 families are Pteridophyta, but gymnosperms appear in mountains.

According to Mahklouf and Elayeb (2019) there are about 2,118 species belonging to 864 genera and 161 families in Libya, of them 2,088 species, 844 genera and 145 families, are Angiosperms, 15 species of 8 genera and 6 families are Gymnosperms and 15 species of 12 genera and 10 families are Pteridophyta.

From previous studies show that Libyan plants are comparatively rich in number. The great majority of the families are widely spread (Aqciteex, 1985; Hammer K *et al.*, 1988; Keith, 1965). The dominant families in Libya are Asteraceae (237 species), Gramineae (228 species), Leguminosae (200 species), Brassicaceae (100 species), Rubiaceae (90 species), Labiatae (63 species),

Caryophyllaceae (62 species), Boraginaceae (53 species) and Chenopodiaceae (49 species). The dominant families encompass 51.8% of the species found. Libya's dominant genera are Euphoria (27 species), Astragalus (25 species), Silene (23 species), Trifolium (22 species), Allium (18 species), Medicago (18 species), Erodium (15 species), Lotus (15 species), Ranunculus (14 species) and Helianthemum (14 species). The dominant genera include only 9.15% on the species level, but these all belong to large and widely spread genera in arid zones (Szafer, 1964).

The total number of vascular plant species varied between 1900 and 2059 as indicated by World Conservation Monitoring Centre, and Sherif and Ben-Othman (1992), respectively. This cannot be considered an extremely rich flora as compared to the large area of the country.

Based on The Food and Agriculture Organization (FAO, 1996), the endemic plants in Libya are very low, because only about (80 - 81 taxa). Endemism occurs in 4 main centers: (i) the El-Jabal El-Akhdar which has about 50% of the total endemic species, (ii) the coastal belt, (iii) the central part of Sahara and (iv) the southern part of Libya including Jabal Al Awaynat, Tibesti and Plateau of Ghat, Mahklouf & Elayeb (2019). On the other hand, World Conservation Monitoring Centre confirmed that 134 species of the total are endemic and 58 are threatened (Qaisar & El Gadi, 1994).

## MATERIAL AND METHODS

The Flora of Libya collection of specimens has recently been completed and published by Al Faateh University. The the most important comprehensive floristic studies for the Flora is a

good work with valuable illustrations, but has many inaccuracies and is now out-of-date following the enormous amount of recent research on the Mediterranean flora.

This would seem extraordinary given the short study period. The Cyrene Declaration Area is not only under-explored botanically, but much of the previous botany has been undertaken by foreign researchers who have taken the specimens out of Libya. Thus, the types and specimens relating to the early works of Durand & Barratte (1910) are in Montpellier and Paris; those on which the work by Pampanini (1931) are based, made by the Italian botanists during the period 1911—1943 are located in Florence, Italy. The recent collections of the late Peter Davis are in Edinburgh, London and University of Reading (Essokne & Jury, 2015). The website of the Catalogue of life (2023), Plants of the World Online | Kew Science (2018), The International Plant Names Index and World Checklist of Vascular Plants (2022).and Index Synonymique de la Flore D'Afrique du Nord (2010–2013), has been used to update the synonyms of the Flora of Libyan plants.

## RESULTS AND DISCUSSION

The first edition of "Flora of Libya" was published in 1976 to provide an updated list of the accepted names and principal synonyms of the taxa of native and naturalized vascular plants. The need for a new and revised checklist became obvious, especially after the publication of the website of "Catalogue of Life and Index Synonymique de la Flore D'Afrique du Nord" which brought numerous taxonomic and nomenclatural changes.

The taxonomy and nomenclature in this checklist volume one started from Primulaceae to Solanaceae as arranged in the Flora of Libya, with extra notes referring to any additions, changes or corrections. These notes may deal with different ranks of taxa. For example, the family Asclepiadaceae locally represented by 8 genera and 8 species, all these genera are transferred to the family Apocynaceae. Another example: studies of the molecular phylogeny of Araceae and Lemnaceae in recent years have confirmed the long-suspected close relationship of the two

families, despite their obvious morphological differences (Table 1).

Family names will appear in this checklist as they were presented in the "Flora of Libya" (Ali *et al*,1976-1989). The above examples of combining two or three families under one family name is given here to attract the attention of the users of this checklist about up-to-date concepts in taxonomic research based on molecular phylogeny. Numerous nomenclatural changes have been made, and are adopted in this checklist.

**Table 1.** List of updated accepted names with their synonyms.

NO	Synonym (Flora of Libya)	Accepted Name	Family	New Family
1	<i>Asterolinon linum-stellatum</i> (L.) Duby.	<i>Lysimachia linum-stellatum</i> L.	Primulaceae	
2	<i>Anagallis monelli</i> Bieb.	<i>Lysimachia arvensis</i> subsp. <i>arvensis</i>	Primulaceae	
3	<i>Anagallis arvensis</i> L.	<i>Lysimachia arvensis</i> subsp. <i>arvensis</i>	Primulaceae	
4	<i>Anagallis arvensis</i> var. <i>latifolia</i> (L.) Lange.	<i>Lysimachia arvensis</i> subsp. <i>latifolia</i> (L.) Peruzzi	Primulaceae	
5	<i>Hypericum triquetrifolium</i> Turra	<i>Hypericum triquetrifolium</i> Turra	Guttiferae	Hypericaceae
6	<i>Hypericum empetrifolium</i> Willd.	<i>Hypericum empetrifolium</i> Willd.	Guttiferae	Hypericaceae
7	<i>Hypericum pubescens</i> Boiss.	<i>Hypericum pubescens</i> Boiss.	Guttiferae	Hypericaceae
8	<i>Hypericum decaisneanum</i> Coss. & Daveau	<i>Hypericum decaisneanum</i> Coss. & Daveau	Guttiferae	Hypericaceae
9	<i>Bongardia chrysogonum</i> (L.) Sp.	<i>Bongardia chrysogonum</i> (L.) Sp.	Leonticaceae	Berberidaceae
10	<i>Leontice leontopetalum</i> L.	<i>Leontice leontopetalum</i> L.	Leonticaceae	Berberidaceae
11	<i>Globularia alypum</i> L.	<i>Globularia alypum</i> L.	Globulariaceae	Plantaginaceae
12	<i>Globularia arabica</i> Jaub. & Sp.	<i>Globularia arabica</i> Jaub. & Sp.	Globulariaceae	Plantaginaceae
13	<i>Theligoum cynocrambe</i> L.	<i>Theligoum cynocrambe</i> L.	Theligonaceae	Rubiaceae
14	<i>Caralluma europaea</i> (Guss.) N. E. Br.	<i>Ceropegia europaea</i> (Guss.) Bruyns	Asclepiadaceae	Apocynaceae
15	<i>Leptadenia pyrotechnica</i> (Forsk.) Decne.	<i>Leptadenia pyrotechnica</i> (Forsk.) Decne.	Asclepiadaceae	Apocynaceae
16	<i>Calotropis procera</i> (Ait.) Ait. fil.	<i>Calotropis procera</i> (Ait.) Ait. fil.	Asclepiadaceae	Apocynaceae
17	<i>Cynanchum acutum</i> L.	<i>Cynanchum acutum</i> L.	Asclepiadaceae	Apocynaceae
18	<i>Pergularia tomentosa</i> L.	<i>Pergularia tomentosa</i> L.	Asclepiadaceae	Apocynaceae
19	<i>Glossonema boveana</i> (Decne.) Decne.	<i>Cynanchum boveanum</i> subsp. <i>boveanum</i>	Asclepiadaceae	Apocynaceae
20	<i>Solenostemma oleifolium</i> (Nect.) Bullock & Druce.	<i>Solenostemma argel</i> (Delile) Hayne	Asclepiadaceae	Apocynaceae
21	<i>Periploca angustifolia</i> Labill.	<i>Periploca laevigata</i> Ait.	Asclepiadaceae	Apocynaceae
22	<i>Althaea ludwigii</i> L.	<i>Malva ludwigii</i> (L.) Soldano, Banfi & Galasso	Malvaceae	
23	<i>Malva parviflora</i> var. <i>microcarpa</i> (Desf. ex Pers.) Loscos.	<i>Malva parviflora</i> L.	Malvaceae	
24	<i>Lavatera cretica</i> L.	<i>Malva multiflora</i> (Cav.) Soldano, Banfi & Galasso	Malvaceae	
25	<i>Lavatera bryoniifolia</i> Miller.	<i>Malva unguiculata</i> (Desf.) Alef.	Malvaceae	

NO	Synonym (Flora of Libya)	Accepted Name	Family	New Family
26	<i>Lavatera olbia</i> L.	<i>Malva olbia</i> (L.) Alef.	Malvaceae	
27	<i>Lavatera arborea</i> L.	<i>Malva arborea</i> (L.) Webb & Berth.	Malvaceae	
28	<i>Abelmoschus esculentus</i> (L.) Moench	<i>Abelmoschus esculentus</i> (L.) Moench	Malvaceae	
29	<i>Sphaeralcea umbellata</i> G. Don.	<i>Phymosia umbellata</i> (Cav.) Kearney	Malvaceae	
30	<i>Juncus articulatus</i> var. <i>maritimus</i> G. Mey.	<i>Juncus articulatus</i> subsp. <i>Articulatus</i>	Juncaceae	
31	<i>Juncus maritimus</i> var. <i>arabicus</i> Aschers. & Buch. ex Boiss.	<i>Juncus rigidus</i> Desf.	Juncaceae	
32	<i>Juncus mutabilis</i> Lam.	<i>Juncus capitatus</i> Weigel	Juncaceae	
33	<i>Capparis cartilaginea</i> Decaisne.	<i>Capparis spinosa</i> var. <i>aegyptia</i> (Lam.) Boiss.	Capparaceae	
34	<i>Cleome scaposa</i> DC.	<i>Gilgella scaposa</i> (DC.) Roalson & J. C. Hall	Capparaceae	Cleomaceae
35	<i>Cleome droserifolia</i> (Forsk.) Del.	<i>Rorida droserifolia</i> (Forsk.) Thulin & Roalson	Capparaceae	Cleomaceae
36	<i>Cleome chrysantha</i> Decne.	<i>Thulinella chrysantha</i> (Decne.) Roalson & J. C. Hall	Capparaceae	Cleomaceae
37	<i>Cleome paradoxa</i> R. Br. ex DC	<i>Coalisina paradoxa</i> (R. Br. ex DC.) Roalson & J. C. Hall	Capparaceae	Cleomaceae
38	<i>Cleome brachycarpa</i> Vahl ex DC.	<i>Cleome brachycarpa</i> Vahl ex DC.	Capparaceae	Cleomaceae
39	<i>Corchorus depressur</i> (L.) Stocks	<i>Corchorus depressus</i> (L.) Stocks	Tiliaceae	Malvaceae
40	<i>Corchorus olitorius</i> L.	<i>Corchorus olitorius</i> L.	Tiliaceae	Malvaceae
41	<i>Centaurium spicatum</i> (L.) Fritsch.	<i>Schenkia spicata</i> (L.) G. Mansion	Gentianaceae	
42	<i>Centaurium minus</i> Moench.	<i>Centaurium erythraea</i> Rafn	Gentianaceae	
43	<i>Centaurium meyeri</i> (Bunge) Druce.	<i>Centaurium pulchellum</i> var. <i>altaicum</i> (Griseb.) Cufod.	Gentianaceae	
44	<i>Brassica cyrenaica</i> Spreng.	<i>Brassica rapa</i> L.	Brassicaceae	
45	<i>Brassica varium</i> Durieu.	<i>Erucastrum varium</i> (Durieu) Durieu	Brassicaceae	
46	<i>Dimplotaxis virgata</i> (Cav.) DC.	<i>Diploaxis virgata</i> (Cav.) DC.	Brassicaceae	
47	<i>Diploaxis muralis</i> subsp. <i>simplex</i> (Viv.) Jafri.	<i>Diploaxis simplex</i> (Viv.) Spreng.	Brassicaceae	
48	<i>Eruca sativa</i> Mill.	<i>Eruca vesicaria</i> (L.) Cav.	Brassicaceae	
49	<i>Eruca longirostris</i> R.Uechtr.	<i>Eruca vesicaria</i> (L.) Cav.	Brassicaceae	
50	<i>Enarthrocarpus pterocarpus</i> var. <i>pterocarpus</i> .	<i>Enarthrocarpus pterocarpus</i> (Pers.) DC.	Brassicaceae	
51	<i>Enarthrocarpus pterocarpus</i> var. <i>hispidus</i> Pamp.	<i>Enarthrocarpus pterocarpus</i> (Pers.) DC.	Brassicaceae	
52	<i>Hussonia pinnata</i> (Viv.) Jafri.	<i>Erucaria pinnata</i> (Viv.) Täckh. & Boulos	Brassicaceae	
53	<i>Cakile aegyptica</i> (L.) Pignatti.	<i>Cakile maritima</i> subsp. <i>maritima</i>	Brassicaceae	
54	<i>Oudneya africana</i> R. Br.	<i>Moricandia suffruticosa</i> (Desf.) Coss. & Durieu	Brassicaceae	
55	<i>Amnosperma cinereum</i> (Desf.) Hook.f.	<i>Amnosperma cinereum</i> (Desf.) Baill.	Brassicaceae	
56	<i>Coronopus squamatus</i> (Forssk.) Asch.	<i>Lepidium coronopus</i> (L.) Al-Shehbaz	Brassicaceae	
57	<i>Cardaria draba</i> (L.) Desv.	<i>Lepidium draba</i> L.	Brassicaceae	
58	<i>Iberis acutiloba</i> Bertol.	<i>Iberis odorata</i> L.	Brassicaceae	
59	<i>Thlaspi perfoliatum</i> L.	<i>Noccaea perfoliata</i> (L.) Al-Shehbaz	Brassicaceae	
60	<i>Capsella bursa-pastoris</i> subsp. <i>rubella</i> (Reut.) Hobk.	<i>Capsella rubella</i> Reut.	Brassicaceae	
61	<i>Hymenolobus procumbens</i> (L.) Nutt. ex Schinz & Thell.	<i>Hormungia procumbens</i> (L.) Hayek	Brassicaceae	
62	<i>Neslia apiculata</i> C.A. Mey.	<i>Neslia paniculata</i> subsp. <i>thracica</i> (Velen.) Bornm.	Brassicaceae	
63	<i>Alyssum minus</i> (L.) Rothm.	<i>Alyssum alyssoides</i> (L.) L.	Brassicaceae	
64	<i>Erophila verna</i> (L.) Chevall.	<i>Draba verna</i> L.	Brassicaceae	
65	<i>Lonchophora kralikii</i> (Pomel) Jafri.	<i>Matthiola kralikii</i> Pomel	Brassicaceae	

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66	<i>Lonchophora capiomontana</i> Durieu.	<i>Matthiola capiomontana</i> (Durieu) Pomel	Brassicaceae	
67	<i>Malcolmia africana</i> (L.) W.T. Aiton.	<i>Strigosella africana</i> (L.) Botsch.	Brassicaceae	
68	<i>Eremobium longisiliquum</i> (Coss.) Boiss	<i>Eremobium aegyptiacum</i> (Spreng.) Asch.	Brassicaceae	
69	<i>Nasturtiopsis coronopifolius</i> (Desf.) Boiss.	<i>Nasturtiopsis coronopifolia</i> (Desf.) Boiss.	Brassicaceae	
70	<i>Torularia torulosa</i> (Desf.) O.E. Schulz.	<i>Neotorularia torulosa</i> (Desf.) Hedge & J. Léonard	Brassicaceae	
71	<i>Viburnum tinus</i> L.	<i>Viburnum tinus</i> L.	Caprifoliaceae	Viburnaceae
72	<i>Lonicera etrusca</i> G. Santi	<i>Lonicera stabiana</i> Guss. ex Pasq.	Caprifoliaceae	
73	<i>Lonicera nummularifolia</i> Jaub. & Spach	<i>Lonicera nummularifolia</i> Jaub. & Spach	Caprifoliaceae	
74	<i>Mollugo cerviana</i> (L.) Ser.	<i>Hypertelis cerviana</i> (L.) Thulin	Molluginaceae	
75	<i>Mollugo nudicaulis</i> Lam.	<i>Paramollugo nudicaulis</i> (Lam.) Thulin	Molluginaceae	
76	<i>Limeum obovatum</i> Vicary	<i>Limeum obovatum</i> Vicary	Molluginaceae	Limeaceae
77	<i>Corbichonia decumbens</i> (Forsk.) Exell	<i>Corbichonia decumbens</i> (Forsk.) Exell	Molluginaceae	Lophiocarpaceae
78	<i>Aizoon hispanicum</i> L	<i>Aizoanthes hispanica</i> (L.) Klak	Aizoaceae	
79	<i>Aptenia cordifolia</i> (L. fil.) Schwant	<i>Mesembryanthemum cordifolium</i> L. fil.	Aizoaceae	
80	<i>Mesembryanthemum forsskalii</i> Hochst. ex Boiss.	<i>Mesembryanthemum cryptanthum</i> Hook. fil.	Aizoaceae	
81	<i>Cinnamomum camphora</i> (L.) Nees & Ebermaier.	<i>Cinnamomum camphora</i> (L.) J. Presl	Lauraceae	
82	<i>Juncus articulatus</i> var. <i>maritimus</i> G. Mey.	<i>Juncus articulatus</i> L	Juncaceae	
83	<i>Juncus maritimus</i> var. <i>arabicus</i> Aschers. & Buch. ex Boiss.	<i>Juncus rigidus</i> Desf.	Juncaceae	
84	<i>Juncus mutabilis</i> Lam.	<i>Juncus capitatus</i> Weigel	Juncaceae	
85	<i>Cerasus avium</i> (L.) Moench.	<i>Prunus avium</i> (L.) L.	Rosaceae	
86	<i>Armeniaca vulgaris</i> Lam.	<i>Prunus armeniaca</i> L.	Rosaceae	
87	<i>Persica vulgaris</i> Mill.	<i>Prunus persica</i> (L.) Batsch	Rosaceae	
88	<i>Amygdalus communis</i> L.	<i>Prunus amygdalus</i> Batsch	Rosaceae	
89	<i>Photinia serrulata</i> Lindl.	<i>Photinia glabra</i> (Thunb.) Jacob-Makoy	Rosaceae	
90	<i>Luffa cylindrica</i> M. Roem.	<i>Cucumis melo</i> L.	Cucurbitaceae	
91	<i>Citrullus lanatus</i> (Thunb.) Mansf.	<i>Citrullus lanatus</i> (Thunb.) Matsum. & Nakai	Cucurbitaceae	
92	<i>Cucurbita moscata</i> (Duchesne) Duchesne ex Poir.	<i>Cucurbita moschata</i> Duchesne	Cucurbitaceae	
93	<i>Allium ampeloprasum</i> L., nom. cons.	<i>Allium baeticum</i> Boiss.	Alliaceae	Amaryllidaceae
94	<i>Allium orientale</i> Boiss.	<i>Allium orientale</i> Boiss.	Alliaceae	Amaryllidaceae
95	<i>Allium leucanthum</i> K.Koch.	<i>Allium ampeloprasum</i> L.	Alliaceae	Amaryllidaceae
96	<i>Allium erdelii</i> Zucc.	<i>Allium orientale</i> Boiss.	Alliaceae	Amaryllidaceae
97	<i>Allium roseum</i> L.	<i>Allium schoenoprasum</i> L.	Alliaceae	Amaryllidaceae
98	<i>Allium nigrum</i> L., nom. cons.	<i>Allium nigrum</i> L.	Alliaceae	Amaryllidaceae
99	<i>Allium longanum</i> Pamp.	<i>Allium longanum</i> Pamp.	Alliaceae	Amaryllidaceae
100	<i>Allium schubertii</i> Zucc.	<i>Allium schubertii</i> Zucc.	Alliaceae	Amaryllidaceae
101	<i>Allium negrianum</i> Maire & Weiller.	<i>Allium sardoum</i> Moris	Alliaceae	Amaryllidaceae
102	<i>Allium barthianum</i> Asch. & Schweinf.	<i>Allium barthianum</i> Asch. & Schweinf.	Alliaceae	Amaryllidaceae
103	<i>Allium paniculatum</i> L.	<i>Allium fuscum</i> Waldst. & Kit.	Alliaceae	Amaryllidaceae
104	<i>Allium ruhmerianum</i> Asch. ex E.A.Durand & Barranté	<i>Allium ruhmerianum</i> Asch. ex E.A.Durand & Barranté	Alliaceae	Amaryllidaceae

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105	<i>Allium subhirsutum</i> L.	<i>Allium subhirsutum</i> L.	Alliaceae	Amaryllidaceae
106	<i>Allium sativum</i> L.	<i>Allium sativum</i> L.	Alliaceae	Amaryllidaceae
107	<i>Allium schoenoprasum</i> L.	<i>Allium schoenoprasum</i> L.	Alliaceae	Amaryllidaceae
108	<i>Allium cepa</i> L.	<i>Allium cepa</i> L.	Alliaceae	Amaryllidaceae
109	<i>Allium fistulosum</i> L.	<i>Allium fistulosum</i> L.	Alliaceae	Amaryllidaceae
110	<i>Reseda pampaniniana</i> Maire & Weiller.	<i>Reseda urnigera</i> Webb	Resedaceae	
111	<i>Reseda alba</i> subsp. <i>decursiva</i> (Forsk.) Maire.	<i>Reseda decursiva</i> Forsk.	Resedaceae	
112	<i>Linum strictum</i> var. <i>spicatum</i> Pers.	<i>Linum strictum</i> L.	Linaceae	
113	<i>Phoenix canariensis</i> Chabaud	<i>Phoenix canariensis</i> H. Wildpret, nom. cons.	Arecaceae	
114	<i>Huphaene thebaica</i> (Del.) Mart	<i>Hyphaene thebaica</i> (L.) Mart.	Arecaceae	
115	<i>Sclerocephalus arabicus</i> Boiss.	<i>Gymnocarpos sclerocephalus</i> (Decne.) Ahlgren & Thulin	Illecebraceae	Caryophyllaceae
116	<i>Gymnocarpos decander</i> Forsk.	<i>Gymnocarpos decandrus</i> Forsk.	Illecebraceae	Caryophyllaceae
117	<i>Paronychia chlorothyrsa</i> Murb.	<i>Paronychia chlorothyrsa</i> Murb.	Illecebraceae	Caryophyllaceae
118	<i>Paronychia capitata</i> (L.) Lam.	<i>Paronychia capitata</i> (L.) Lam.	Illecebraceae	Caryophyllaceae
119	<i>Paronychia kapela</i> (Hacq.) A. Kerner	<i>Paronychia kapela</i> (Hacq.) A. Kerner	Illecebraceae	Caryophyllaceae
120	<i>Paronychia arabica</i> (L.) DC.	<i>Paronychia arabica</i> (L.) DC.	Illecebraceae	Caryophyllaceae
121	<i>Paronychia argentea</i> Lam.	<i>Paronychia argentea</i> Lam.	Illecebraceae	Caryophyllaceae
122	<i>Herniaria cinerea</i> DC.	<i>Herniaria cinerea</i> DC.	Illecebraceae	Caryophyllaceae
123	<i>Herniaria glabra</i> L.	<i>Herniaria glabra</i> L.	Illecebraceae	Caryophyllaceae
124	<i>Herniaria cyrenaica</i> Hermann in Fedde	<i>Herniaria cyrenaica</i> F. Hermann	Illecebraceae	Caryophyllaceae
125	<i>Herniaria hemistemon</i> J. Gay	<i>Herniaria hemistemon</i> J. Gay	Illecebraceae	Caryophyllaceae
126	<i>Herniaria ericifolia</i> Townsend	<i>Herniaria ericifolia</i> C. C. Townsend	Illecebraceae	Caryophyllaceae
127	<i>Herniaria fontanesii</i> Gay	<i>Herniaria fontanesii</i> Gay	Illecebraceae	Caryophyllaceae
128	<i>Fagonia microphylla</i> Pomel.	<i>Fagonia scabra</i> Forsk.	Zygophyllaceae	
129	<i>Fagonia tenuifolia</i> Hochst. & Steud. ex Boiss.	<i>Fagonia orientalis</i> J. Presl & C. Presl	Zygophyllaceae	
130	<i>Fagonia sinaica</i> Boiss.	<i>Fagonia scabra</i> Forsk.	Zygophyllaceae	
131	<i>Fagonia sinaica</i> var. <i>longipes</i> (Maire) Hadidi.	<i>Fagonia scabra</i> Forsk.	Zygophyllaceae	
132	<i>Fagonia sinaica</i> var. <i>pseudocretica</i> (Pampanini) Hadidi.	<i>Fagonia scabra</i> Forsk.	Zygophyllaceae	
133	<i>Fagonia sinaica</i> var. <i>longipes</i> (Maire) Hadidi.	<i>Fagonia scabra</i> Forsk.	Zygophyllaceae	
134	<i>Fagonia sinaica</i> var. <i>kahirina</i> (Boiss.) Hadidi.	<i>Fagonia scabra</i> Forsk.	Zygophyllaceae	
135	<i>Fagonia taeckholmiana</i> Hadidi.	<i>Fagonia scabra</i> Forsk.	Zygophyllaceae	
136	<i>Fagonia thebaica</i> Boiss.	<i>Fagonia arabica</i> L.	Zygophyllaceae	
137	<i>Fagonia arabica</i> var. <i>thomsonii</i> Giri & Nayar.	<i>Fagonia indica</i> var. <i>thomsonii</i> (Giri & Nayar) M. Sharma	Zygophyllaceae	
138	<i>Fagonia arabica</i> var. <i>viscidissima</i> Maire.	<i>Fagonia arabica</i> L.	Zygophyllaceae	
139	<i>Fagonia arabica</i> var. <i>membranacea</i> A. Ghafoor.	<i>Fagonia arabica</i> L.	Zygophyllaceae	
140	<i>Fagonia longipedicellata</i> A. Ghafoor.	<i>Fagonia scabra</i> Forsk.	Zygophyllaceae	
141	<i>Tribulus longipetalus</i> Viv.	<i>Tribulus pentandrus</i> Forsk.	Zygophyllaceae	
142	<i>Tribulus longipetalus</i> subsp. <i>macropterus</i> (Boiss.) Maire.	<i>Tribulus macropterus</i> Boiss.	Zygophyllaceae	

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143	<i>Zygophyllum simplex</i> L.	<i>Tetraena simplex</i> (L.) Beier & Thulin	Zygophyllaceae	
144	<i>Zygophyllum album</i> L. fil.	<i>Tetraena alba</i> (L. fil.) Beier & Thulin	Zygophyllaceae	
145	<i>Zygophyllum gaetulum</i> Emberger & Maire.	<i>Tetraena gaetula</i> subsp. <i>gaetula</i>	Zygophyllaceae	
146	<i>Roemeria hybrida</i> var. <i>dodecandra</i> (Forsk.) Durand & Barmtte	<i>Roemeria hybrida</i> subsp. <i>dodecandra</i> (Forskál) Maire	Papaveraceae	
147	<i>Roemeria hybrida</i> var. <i>hybrida</i>	<i>Roemeria hybrida</i> subsp. <i>hybrida</i>	Papaveraceae	
148	<i>Papaver rhoeas</i> var. <i>strigosum</i> Boenn.	<i>Papaver rhoeas</i> subsp. <i>rhoeas</i>	Papaveraceae	
149	<i>Papaver rhoeas</i> var. <i>agrivagum</i> (Jord.) Beck.	<i>Papaver rhoeas</i> subsp. <i>rhoeas</i>	Papaveraceae	
150	<i>Eschscholtzia californica</i> Cham.	<i>Eschscholtzia californica</i> Cham.	Papaveraceae	
151	<i>Fumaria gaillardotii</i> Boiss.	<i>Fumaria gaillardotii</i> Boiss.	Fumariaceae	Papaveraceae
152	<i>Fumaria judaica</i> Boiss.	<i>Fumaria judaica</i> Boiss.	Fumariaceae	Papaveraceae
153	<i>Fumaria macrocarpa</i> Parl.	<i>Fumaria macrocarpa</i> Parl.	Fumariaceae	Papaveraceae
154	<i>Fumaria flabellata</i> Gasparr.	<i>Fumaria flabellata</i> Gasparr.	Fumariaceae	Papaveraceae
155	<i>Fumaria capreolata</i> L.	<i>Fumaria capreolata</i> L.	Fumariaceae	Papaveraceae
156	<i>Fumaria bastardii</i> Boreau.	<i>Fumaria bastardii</i> Bor.	Fumariaceae	Papaveraceae
157	<i>Fumaria officinalis</i> L.	<i>Fumaria officinalis</i> L.	Fumariaceae	Papaveraceae
158	<i>Fumaria densiflora</i> DC.	<i>Fumaria densiflora</i> DC.	Fumariaceae	Papaveraceae
159	<i>Fumaria parviflora</i> Lam.	<i>Fumaria parviflora</i> Lam.	Fumariaceae	Papaveraceae
160	<i>Fumaria vaillantii</i> Loisel.	<i>Fumaria vaillantii</i> Loisel.	Fumariaceae	Papaveraceae
161	<i>Hypecoum procumbens</i> L.	<i>Hypecoum procumbens</i> L.	Hypecoaceae	Papaveraceae
162	<i>Hypecoum imberbe</i> Sm.	<i>Hypecoum imberbe</i> Sm.	Hypecoaceae	Papaveraceae
163	<i>Hypecoum deuteroparviflorum</i> Fedde.	<i>Hypecoum littorale</i> Wulfen	Hypecoaceae	Papaveraceae
164	<i>Hypecoum aequilobum</i> Viv.	<i>Hypecoum aequilobum</i> Viv.	Hypecoaceae	Papaveraceae
165	<i>Hypecoum geslinii</i> Coss. & Durieu.	<i>Hypecoum littorale</i> Wulfen	Hypecoaceae	Papaveraceae
166	<i>Hypecoum pendulum</i> L.	<i>Hypecoum pendulum</i> L.	Hypecoaceae	Papaveraceae
167	<i>Helianthemum lippii</i> var. <i>sessiliflorum</i> (Desf.) Spach.	<i>Helianthemum lippii</i> (L.) Dum.	Convolvulaceae	<i>Cistaceae</i>
168	<i>Helianthemum ledifolium</i> var. <i>macrocarpum</i> Willk.	<i>Helianthemum ledifolium</i> subsp. <i>ledifolium</i>	Convolvulaceae	<i>Cistaceae</i>
169	<i>Convolvulus cantabricus</i> L.	<i>Convolvulus cantabrica</i> L.	Convolvulaceae	
170	<i>Ipomoea stolonifera</i> (Cyr.) J. F. Gmelin.	<i>Ipomoea imperati</i> (Vahl) Griseb.	Convolvulaceae	
171	<i>Valerianella petrovitchii</i> Aschers. ex Rohlf	<i>Valerianella petrovichii</i> Aschers. ex Rohlf	Valerianaceae	Caprifoliaceae
172	<i>Valerianella chlorodonata</i> Cosson & Durieu ex Cosson	<i>Valerianella chlorodonta</i> Coss. & Dur. ex Coss.	Valerianaceae	Caprifoliaceae
173	<i>Valerianella muricata</i> (Stev. ex Bieb.) J. W. Loudon.	<i>Valerianella eriocarpa</i> Desv.	Valerianaceae	Caprifoliaceae
174	<i>Valerianella stephanodon</i> Coss. & Dur.	<i>Valerianella stephanodon</i> Coss. & Dur.	Valerianaceae	Caprifoliaceae
175	<i>Fedia cornucopiae</i> (L.) Gaertner	<i>Fedia cornucopiae</i> (L.) Gaertner	Valerianaceae	Caprifoliaceae
176	<i>Fedia caput-bovis</i> Pomel.	<i>Fedia graciliflora</i> subsp. <i>graciliflora</i>	Valerianaceae	Caprifoliaceae
177	<i>Centranthus calcitrapae</i> (L.) Dufr.	<i>Centranthus calcitrapae</i> (L.) Dufr.	Valerianaceae	Caprifoliaceae
178	<i>Urtica dubia</i> Forssk.	<i>Urtica membranacea</i> Poir.	Urticaceae	
179	<i>Forsskaea tenacissima</i> L.	<i>Forsskaea tenacissima</i> L.	Urticaceae	
180	<i>Cistus villosus</i> subsp. <i>incanus</i> (L.) P. Fourn.	<i>Cistus incanus</i> L.	Cistaceae	
181	<i>Cistus incanus</i> subsp. <i>creticus</i> (L.) Heywood.	<i>Cistus creticus</i> subsp. <i>creticus</i>	Cistaceae	

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182	<i>Cistus salvifolius</i> L.	<i>Cistus salvifolius</i> L.	Cistaceae	
183	<i>Helianthemum lavandulifolium</i> Miller, Gard.	<i>Helianthemum lippii</i> (L.) Dum.	Cistaceae	
184	<i>Helianthemum ciliatum</i> (Desf.) Pers.	<i>Helianthemum virgatum</i> subsp. <i>ciliatum</i> (Desf.) Murb.	Cistaceae	
185	<i>Wahlenbergia bernardii</i> Leredde.	<i>Wahlenbergia campanuloides</i> (Delile) Vatke	Campanulaceae	
186	<i>Citrus limetta</i> Risso.	<i>Citrus medica</i> L.	Rutaceae	
187	<i>Citrus deliciosa</i> Ten.	<i>Citrus reticulata</i> Blanco	Rutaceae	
188	<i>Citrus paradisi</i> Macfad.	<i>Citrus aurantium</i> L.	Rutaceae	
189	<i>Citrus sinensis</i> (L.) Osbeck.	<i>Citrus aurantium</i> L.	Rutaceae	
190	<i>Rhus tripartita</i> (Ucria) Grande.	<i>Searsia tripartita</i> (Ucria) Moffett	Anacardiaceae	
191	<i>Schinus terebinthifolius</i> Raddi	<i>Schinus terebinthifolia</i> Raddi	Anacardiaceae	
192	<i>Schinus molle</i> var. <i>areira</i> (L.) DC.	<i>Schinus areira</i> L.	Anacardiaceae	
193	<i>Cuscuta europaea</i> L.	<i>Cuscuta europaea</i> L.	Cuscutaceae	Convolvulaceae
194	<i>Cuscuta epithimum</i> (L.) L.	<i>Cuscuta epithimum</i> (L.) L.	Cuscutaceae	Convolvulaceae
195	<i>Cuscuta planiflora</i> Ten.	<i>Cuscuta planiflora</i> Ten.	Cuscutaceae	Convolvulaceae
196	<i>Cistanche phelypaea</i> (L.) Cout.	<i>Cistanche phelipaea</i> (L.) Coutinho	Orobanchaceae	
197	<i>Orobanche nana</i> (Reuter) G. Beck.	<i>Phelipanche mutelii</i> var. <i>nana</i> (Reut.) Uhlich & Rätzel	Orobanchaceae	
198	<i>Orobanche mutelii</i> F. W. Schultz.	<i>Phelipanche mutelii</i> subsp. <i>mutelii</i>	Orobanchaceae	
199	<i>Orobanche schweinfurthii</i> G. Beck.	<i>Phelipanche schweinfurthii</i> (G. Beck) Soják	Orobanchaceae	
200	<i>Orobanche lavandulacea</i> Rchb.	<i>Phelipanche lavandulacea</i> subsp. <i>lavandulacea</i>	Orobanchaceae	
201	<i>Orobanche coelestis</i> (Reuter) G. Beck.	<i>Phelipanche coelestis</i> (Boiss. & Reut.) Soják	Orobanchaceae	
202	<i>Orobanche schultzii</i> Mutel.	<i>Phelipanche schultzii</i> (Mutel) Pomel	Orobanchaceae	
203	<i>Orobanche versicolor</i> F. W. Schultz.	<i>Orobanche pubescens</i> Dum.-Urville	Orobanchaceae	
204	<i>Scabiosa oberti-manettii</i> Pampanini.	<i>Lomelosia oberti-manettii</i> (Pamp.) W. Greuter & Burdet	Dipsacaceae	Caprifoliaceae
205	<i>Scabiosa monspeliensis</i> Jacq.	<i>Lomelosia stellata</i> (L.) Rafin.	Dipsacaceae	Caprifoliaceae
206	<i>Scabiosa eremophila</i> Boiss.	<i>Sixalix eremophila</i> (Boiss.) W. Greuter & Burdet	Dipsacaceae	Caprifoliaceae
207	<i>Scabiosa atropurpurea</i> L.	<i>Sixalix atropurpurea</i> subsp. <i>atropurpurea</i>	Dipsacaceae	Caprifoliaceae
208	<i>Scabiosa arenaria</i> Forsk.	<i>Sixalix arenaria</i> (Forsk.) W. Greuter & Burdet	Dipsacaceae	Caprifoliaceae
209	<i>Scabiosa libyca</i> S. A. Alavi.	<i>Sixalix libyca</i> (Alavi) W. Greuter & Burdet	Dipsacaceae	Caprifoliaceae
210	<i>Colchicum ritchii</i> R.Br.	<i>Colchicum ritchii</i> R.Br.	Liliaceae	Colchicaceae
211	<i>Colchicum ritchii</i> var. <i>pusillum</i> Bég. & A.Vacc.	<i>Colchicum ritchii</i> R.Br.	Liliaceae	Colchicaceae
212	<i>Androcymbium gramineum</i> (Cav.) J.F.Macbr.	<i>Androcymbium gramineum</i> (Cav.) J.F.Macbr.	Liliaceae	Colchicaceae
213	<i>Androcymbium gramineum</i> var. <i>palaestinum</i> (Baker) Maire.	<i>Androcymbium palaestinum</i> Baker	Liliaceae	Colchicaceae
214	<i>Asphodelus microcarpus</i> Viv.	<i>Asphodelus ramosus</i> subsp. <i>ramosus</i>	Liliaceae	Colchicaceae
215	<i>Asphodelus microcarpus</i> var. <i>nervosus</i> (Pomel) Batt. & Trab.	<i>Asphodelus ramosus</i> subsp. <i>ramosus</i>	Liliaceae	Colchicaceae
216	<i>Asphodelus aestivus</i> Brot.	<i>Asphodelus aestivus</i> Brot.	Liliaceae	Colchicaceae
217	<i>Asphodelus tenuifolius</i> Cav.	<i>Asphodelus tenuifolius</i> Cav.	Liliaceae	Colchicaceae
218	<i>Asphodelus fistulosus</i> L.	<i>Asphodelus fistulosus</i> L.	Liliaceae	Colchicaceae
219	<i>Asphodelus refractus</i> Boiss.	<i>Asphodelus refractus</i> Boiss.	Liliaceae	Colchicaceae
220	<i>Aloe vera</i> (L.) Burm.f.	<i>Aloe vera</i> (L.) Burm.f.	Liliaceae	Colchicaceae



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221	<i>Gagea granatellii</i> (Parl.) Parl.	<i>Gagea granatellii</i> (Parl.) Parl.	Liliaceae	
222	<i>Scilla numidica</i> Poir.	<i>Barnardia numidica</i> (Poir.) Speta	Liliaceae	Asparagaceae
223	<i>Scilla obtusifolia</i> Poir.	<i>Prospero obtusifolium</i> (Poir.) Speta	Liliaceae	Asparagaceae
224	<i>Urginea maritima</i> (L.) Baker.	<i>Drimia maritima</i> (L.) Stearn	Liliaceae	Asparagaceae
225	<i>Urginea undulata</i> (Desf.) Steinh.	<i>Drimia undata</i> Stearn	Liliaceae	Asparagaceae
226	<i>Urginea autumnalis</i> (L.) El-Gadi.	<i>Prospero autumnale</i> (L.) Speta	Liliaceae	Asparagaceae
227	<i>Ornithogalum tenuifolium</i> Guss., nom. illeg.	<i>Ornithogalum gussonei</i> Ten.	Liliaceae	Asparagaceae
228	<i>Muscari maritimum</i> Desf.	<i>Leopoldia maritima</i> (Desf.) Parl.	Liliaceae	Asparagaceae
229	<i>Muscari comosum</i> (L.) Mill.	<i>Leopoldia comosa</i> (L.) Parl.	Liliaceae	Asparagaceae
230	<i>Asparagus stipularis</i> Forssk.	<i>Asparagus horridus</i> L.	Liliaceae	Asparagaceae
231	<i>Chenopodium foliosum</i> (Moench) Ascherson.	<i>Blitum virgatum</i> subsp. <i>virgatum</i>	Chenopodiaceae	Amaranthaceae
232	<i>Chenopodium botrys</i> L.	<i>Dysphania botrys</i> (L.) Mosyakin & Clemants	Chenopodiaceae	Amaranthaceae
233	<i>Chenopodium ambrosioides</i> L.	<i>Dysphania ambrosioides</i> (L.) Mosyakin & Clemants	Chenopodiaceae	Amaranthaceae
234	<i>Chenopodium vulvaria</i> L.	<i>Chenopodium vulvaria</i> L.	Chenopodiaceae	Amaranthaceae
235	<i>Chenopodium murale</i> L.	<i>Chenopodiastrum murale</i> (L.) S. Fuentes, Uotila & Borsch	Chenopodiaceae	Amaranthaceae
236	<i>Chenopodium album</i> L.	<i>Chenopodium album</i> L.	Chenopodiaceae	Amaranthaceae
237	<i>Chenopodium giganteum</i> D. Don	<i>Chenopodium giganteum</i> D. Don	Chenopodiaceae	Amaranthaceae
238	<i>Bassia muricata</i> (L.) Aschers.	<i>Bassia muricata</i> (L.) Aschers.	Chenopodiaceae	Amaranthaceae
239	<i>Kochia indica</i> Wight.	<i>Bassia indica</i> (Wight) A. J. Scott	Chenopodiaceae	Amaranthaceae
240	<i>Kochia scoparia</i> (L.) Schrad.	<i>Bassia scoparia</i> subsp. <i>scoparia</i>	Chenopodiaceae	Amaranthaceae
241	<i>Chenolea arabica</i> Boiss.	<i>Kirilowia arabica</i> (Boiss.) G. L. Chu	Chenopodiaceae	Amaranthaceae
242	<i>Camphorosma monspeliaca</i> L.	<i>Camphorosma monspeliaca</i> L.	Chenopodiaceae	Amaranthaceae
243	<i>Spinacia oleracea</i> L.	<i>Spinacia oleracea</i> L.	Chenopodiaceae	Amaranthaceae
244	<i>Atriplex halimus</i> L.	<i>Atriplex halimus</i> L.	Chenopodiaceae	Amaranthaceae
245	<i>Atriplex coriacea</i> Forsk.	<i>Atriplex coriacea</i> Forsk.	Chenopodiaceae	Amaranthaceae
246	<i>Atriplex mollis</i> Desf.	<i>Atriplex mollis</i> Desf.	Chenopodiaceae	Amaranthaceae
247	<i>Atriplex stylosa</i> Viv.	<i>Atriplex stylosa</i> Viv.	Chenopodiaceae	Amaranthaceae
248	<i>Atriplex dimorphostegia</i> Kar. & Kir.	<i>Atriplex dimorphostegia</i> Kar. & Kir.	Chenopodiaceae	Amaranthaceae
249	<i>Atriplex rosea</i> L.	<i>Atriplex rosea</i> L.	Chenopodiaceae	Amaranthaceae
250	<i>Blackiella inflata</i> (F. Müll.) Aellen.	<i>Atriplex lindleyi</i> subsp. <i>inflata</i> (F. Müll.) Paul G. Wilson	Chenopodiaceae	Amaranthaceae
251	<i>Halimione portulacoides</i> (L.) Aellen.	<i>Atriplex portulacoides</i> L.	Chenopodiaceae	Amaranthaceae
252	<i>Halopeplis amplexicaulis</i> (Vahl) Ung.-Sternb. ex Cesati, Passer. & Gibelli	<i>Halopeplis amplexicaulis</i> (Vahl) Ung.-Sternb. ex Cesati, Passer. & Gibelli	Chenopodiaceae	Amaranthaceae
253	<i>Halocnemum strobilaceum</i> (Pall.) M. Bieb.	<i>Halocnemum strobilaceum</i> (Pall.) M. Bieb.	Chenopodiaceae	Amaranthaceae
254	<i>Arthrocnemum macrostachyum</i> (Moric.) Moric.	<i>Arthrocaulon macrostachyum</i> (Moric.) Piirainen & G. Kadereit	Chenopodiaceae	Amaranthaceae
255	<i>Arthrocnemum fruticosum</i> (L.) Moq.	<i>Salicornia fruticosa</i> (L.) L.	Chenopodiaceae	Amaranthaceae
256	<i>Arthrocnemum perenne</i> (Miller) Moss ex Fourc.	<i>Salicornia perennis</i> Miller	Chenopodiaceae	Amaranthaceae
257	<i>Suaeda vermiculata</i> J. F. Gmelin.	<i>Suaeda mollis</i> (Desf.) Del.	Chenopodiaceae	Amaranthaceae
258	<i>Suaeda monodiana</i> Maire.	<i>Suaeda mollis</i> (Desf.) Del.	Chenopodiaceae	Amaranthaceae
259	<i>Suaeda palestina</i> Eig & Zoh.	<i>Suaeda palaestina</i> Eig & Zoh.	Chenopodiaceae	Amaranthaceae
260	<i>Suaeda aegyptiaca</i> (Hasselq.) Zoh.	<i>Suaeda aegyptiaca</i> (Hasselq.) Zoh.	Chenopodiaceae	Amaranthaceae

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261	<i>Traganum nudatum</i> Del.	<i>Traganum nudatum</i> Del.	Chenopodiaceae	Amaranthaceae
262	<i>Nucularia perrini</i> Batt.	<i>Nucularia perrinii</i> Batt.	Chenopodiaceae	Amaranthaceae
263	<i>Salsola kali</i> L.	<i>Kali turgida</i> (Dumort.) Gutermann	Chenopodiaceae	Amaranthaceae
264	<i>Salsola tetrandra</i> Forsk.	<i>Caroxylon tetrandrum</i> (Forsk.) Akhani & Roalson	Chenopodiaceae	Amaranthaceae
265	<i>Salsola tetragona</i> Del.	<i>Caroxylon tetrandrum</i> (Forsk.) Akhani & Roalson	Chenopodiaceae	Amaranthaceae
266	<i>Salsola longifolia</i> Forsk.	<i>Salsola longifolia</i> Forsk.	Chenopodiaceae	Amaranthaceae
267	<i>Salsola schweinfurthii</i> Solms-Laub.	<i>Salsola schweinfurthii</i> Solms-Laub.	Chenopodiaceae	Amaranthaceae
268	<i>Salsola baryosma</i> (Roem. & Schult.) Dandy.	<i>Caroxylon imbricatum</i> (Forsk.) Akhani & Roalson	Chenopodiaceae	Amaranthaceae
269	<i>Salsola subaphylla</i> C. A. Mey.	<i>Halothamnus subaphyllus</i> subsp. <i>subaphyllus</i>	Chenopodiaceae	Amaranthaceae
270	<i>Hammada scoparia</i> (Pomel) Iljin.	<i>Haloxylon scoparium</i> Pomel	Chenopodiaceae	Amaranthaceae
271	<i>Hammada schmittiana</i> (Pomel) Botsch.	<i>Haloxylon schmittianum</i> Pomel	Chenopodiaceae	Amaranthaceae
272	<i>Hammada salicornica</i> (Moq.) Iljin.	<i>Haloxylon salicornicum</i> (Moq.) Bunge ex Boiss.	Chenopodiaceae	Amaranthaceae
273	<i>Haloxylon aphyllum</i> (Minkw.) Iljin.	<i>Haloxylon ammodendron</i> (C. A. Mey.) Bge ex Fenzl	Chenopodiaceae	Amaranthaceae
274	<i>Anabasis articulata</i> (Forsk.) Moq.	<i>Anabasis articulata</i> (Forsk.) Moq.	Chenopodiaceae	Amaranthaceae
275	<i>Anabasis articulata</i> subsp. <i>oropediorum</i> (Maire) Ozenda.	<i>Anabasis oropediorum</i> Maire	Chenopodiaceae	Amaranthaceae
276	<i>Noaea mucronata</i> (Forsk.) Aschers. & Schweinf	<i>Noaea mucronata</i> subsp. <i>mucronata</i>	Chenopodiaceae	Amaranthaceae
277	<i>Cornulaca monacantha</i> Del.	<i>Cornulaca monacantha</i> Del.	Chenopodiaceae	Amaranthaceae
278	<i>Spergula fallax</i> (Lowe) E. H. L. Krause.	<i>Spergularia flaccida</i> (Madden) I. M. Turner	Caryophyllaceae	
279	<i>Spergularia marina</i> (L.) Griseb.	<i>Spergularia marina</i> (L.) Besser	Caryophyllaceae	
280	<i>Spergularia bocconii</i> (Scheele) Graebner	<i>Spergularia bocconei</i> (Scheele) Graebner	Caryophyllaceae	
281	<i>Polycarpon prostratum</i> (Forsk.) Ascherson & Schweinf.	<i>Polycarpon tetraphyllum</i> subsp. <i>tetraphyllum</i>	Caryophyllaceae	
282	<i>Robbairia delileana</i> Milne-Redh.	<i>Polycarpha robbairea</i> subsp. <i>robbairea</i>	Caryophyllaceae	
283	<i>Minuartia geniculata</i> (Poir.) Thell.	<i>Rhodalsine geniculata</i> (Poir.) F. N. Williams	Caryophyllaceae	
284	<i>Minuartia mediterranea</i> (Link) K. Maly.	<i>Sabulina mediterranea</i> (Link) Rchb.	Caryophyllaceae	
285	<i>Silene viviani</i> Steudel	<i>Silene vivianii</i> Steudel	Caryophyllaceae	
286	<i>Vaccaria pyramidata</i> Medicus.	<i>Vaccaria hispanica</i> (Miller) Rauschert	Caryophyllaceae	
287	<i>Gypsophila pilosa</i> Huds.	<i>Gypsophila pilosa</i> Huds.	Caryophyllaceae	
288	<i>Petrorhagia velutina</i> (Guss.) P. W. Ball & Heywood.	<i>Petrorhagia dubia</i> (Raf.) G. López González & Á. M. Romo	Caryophyllaceae	
289	<i>Acacia nilotica</i> (L.) Willd. ex Delile.	<i>Vachellia nilotica</i> (L.) P.J.H.Hurter & Mabb.	Mimosaceae	Fabaceae
290	<i>Acacia tortilis</i> (Forssk.) Hayne.	<i>Vachellia tortilis</i> (Forssk.) Galasso & Banfi	Mimosaceae	Fabaceae
291	<i>Acacia karroo</i> Hayne.	<i>Vachellia karroo</i> (Hayne) Banfi & Galasso	Mimosaceae	Fabaceae
292	<i>Acacia farnesiana</i> (L.) Willd.	<i>Vachellia farnesiana</i> (L.) Wight & Arn.	Mimosaceae	Fabaceae
293	<i>Cassia occidentalis</i> L.	<i>Senna occidentalis</i> (L.) Link	Caesalpiniaceae	
294	<i>Cassia italica</i> (Mill.) F.W.Andrews.	<i>Senna italica</i> Mill.	Caesalpiniaceae	
295	<i>Solanum nigrum</i> var. <i>villosum</i> L.	<i>Solanum decipiens</i> Opiz	Solanaceae	
296	<i>Solanum sublobatum</i> Willd. ex Roem. & Schult.	<i>Solanum chenopodioides</i> Lamarck	Solanaceae	
297	<i>Solanum sodomeum</i> L.	<i>Solanum anguivi</i> Lam.	Solanaceae	
298	<i>Lycopersicon esculentum</i> Miller.	<i>Solanum lycopersicum</i> L.	Solanaceae	
299	<i>Datura arborea</i> L.	<i>Brugmansia arborea</i> (L.) Sweet	Solanaceae	

NO	Synonym (Flora of Libya)	Accepted Name	Family	New Family
300	<i>Datura fastuosa</i> L.	<i>Datura metel</i> L.	Solanaceae	
301	<i>Petunia hybrida</i> (Hook. fil.) Vilmorin.	<i>Petunia atkinsiana</i> D. Don ex W.H.Baxter	Solanaceae	

**References:**

- [1] **Ali, El-Gadi, A.A. & Jafri, S.M.H.** (Eds.) (1976–1989) Flora of Libya. El Faatth University of Tripoli/ Arab Development Institute, Tripoli., pp. 1–150
- [2] **Boulos, L.** (1972). Our Present Knowledge of the Flora and Vegetation of Libya. *Webbia*, 26: 366–400.
- [3] **Corti, R.** (1942). Flora e Vegetazione del Fezzan e della Regione di Gat. Reale Società Geografica Italiana. – Firenze.
- [4] **Dobignard, A. & Chatelain, C.** (2010–2013). Index synonymique de la flore d’Afrique du Nord. 5 tomes. Geneva, Switzerland: Éditions des Conservatoire et Jardin Botaniques.
- [5] **Durand, E; Barratte, G.** (1910): Avec la collaboration de Ascherson, P., Muschler, B. W. and Apercu Geolg, R. Sur la Tripolitaine par Meunier Florae Libcae prodromus, ou Catalogue Raisonne des plantes de Tripoli.CXXVII, 330 P., 20 tap., 1 carte. — Geneva.
- [6] **Essokne, R. S & Jury, S. J.** (2015). Report on a visit to Jebel Akhdar (Cyrenaica, Libya). *Fl. Medit.* 25: 79–85.
- [7] **Hammer, K., Lehmann, C.O. & P. Perrino** (1988). A check-list of the Libyan cultivated plants including an inventory of the germplasm collected in the years 1981, 1982 and 1983. *Kulturpflanze.* 36:475-527.
- [8] **Kheith, H. G.** (1965). A preliminary check list of Libyan Flora. Ministry of Agriculture. Libya.
- [9] **Klopper, R. R & Gautier, L. & Chatelain, C. & Smith, G. F. & Spichiger, R.** (2007). Floristics of the angiosperm flora of subSahara African: an analysis of the Africa Plant Checklist and Database. *Taxon* .56, 201–208.
- [10] **Mahklouf, M. & Etayeb, K.** (2019). Global biodiversity (selected countries in Africa (edi. Pullaiah, T). *Apple Academic Press, Inc - CRC Press, a member of Taylor & Francis Group.* Vol. 3 Ch 5. 113 – 133.
- [11] **Pampanini, R.** (1931): Prodrómo della Flora Cirenaica. – Forlì.
- [12] **Plants of the World Online** | Kew Science, <https://powo.science.kew.org>
- [13] **Qaiser, M. & El –Gadi. A.** (1994). A critical analysis of the flora of Libya. *Libyan J.Sci.* 13:31–40.
- [14] **Sherif, A.S. & A.B. Ben-othman.** (1992). Checklist and analysis of El-Nasr forest flora. Bulletin of Natural. Nat. Herb. Tripoli, Libya, 3: 9–20.
- [15] **Szafer, W.** (1964). General Plant Geography. Warszawa. PWN Polish Scientific Publishers
- [16] **The Catalogue of life.** (<https://www.catalogueoflife.org>)
- [17] **The International Plant Names Index and World Checklist of Vascular Plants** (2022). Published on the Internet at <http://www.ipni.org> and <https://powo.science.kew.org/>
- [18] **Viviani, D.** (1824). Florae Libycae Specimen. Ex Typographia Genua.
- [19] **WCSP.** (2017) World Checklist of Selected Plant Families. Facilitated by the Royal Botanic Gardens, Kew. Available from: <http://wmsp.science.kew.org> (accessed 4 January 2018)
- [20] [www.fao.org/fileadmin/templates/agphome/documents/PGR/SoW1/east/LIBYA.pdf](http://www.fao.org/fileadmin/templates/agphome/documents/PGR/SoW1/east/LIBYA.pdf)

## فهرس الأسماء الجديدة لنباتات الفلورا الليبية

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### الملخص

هناك العديد من المنشورات الحديثة المتعلقة بالتوزيع الجغرافي والتغيرات الطبيعية في التسميات النباتية ، ولان الفلورا الليبية قديمة, فهذه القائمة المقسمة على مجلدين محدثة ومنقحة لنباتات الفلورا الليبية. توفر هذه الدراسة قائمة مراجعة محدثة لأصناف النباتات الوعائية الحصرية لنباتات الفلورا الليبية. تم تسجيل ستمائة وأربعة عشر نوعًا من النباتات الوعائية (vascular plants) التي تنتمي إلى 150 عائلة وترتيبها كما هو الحال في الفلورا الليبية بدءًا من Primulaceae إلى Flacourtiaceae وتم تقسيمها إلى مجلدين ، المجلد الأول يبدأ من Primulaceae إلى Solanaceae ، والذي يحتوي على 301 نوعًا محدثًا ، يليه المجلد الثاني يبدأ من Caryophyllaceae إلى Flacourtiaceae والتي تخضع حاليًا للمراجعة وسيتم نشرها بعد الانتهاء من المجلد الاول.

الكلمات المفتاحية: الفلورا الليبية، تحديث ، الأسماء الجديدة، النوع النباتي ، الفصائل النباتية