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Flora of Salento (Apulia, Southeastern Italy): an annotated checklist

Abstract

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This present checklist is based on a screening of relevant and recent literature and on field observations and floristic collections carried out over the last fifteen years. The flora of the Salento includes 1340 specific and subspecific taxa organised into 115 families and 560 genera.

Introduction

The Salento Peninsula, which forms the high heel of the Italian boot, is the south-eastern most part of the Italian peninsula. It is situated in the Apulia region, and covers an area of more than 4,600 km², stretching more than 150 km between the Ionian and Adriatic Seas. Between Porto Cesareo, on the Ionian coast, and Torre Specchiolla, on the Adriatic one, the peninsula narrows in the so-called Messapian or Salentine isthmus, about 35 km wide, before broadening out again to about 44 km between Gallipoli and Otranto finally coming to the end at Capo di Leuca.

The Salento includes part of the provinces of Brindisi and Taranto and the whole province of Lecce, which forms the end of the peninsula and within which two important geographical reference points lie: Punta Palascia, near Otranto, which is the eastern-most point of the Italian mainland, and Punta Ristola, near Leuca, which marks the southern-most point of the Apulia region. Only the areas below an altitude of 100 m above sea level were considered to be part of the Salento floristic region (see Fig. 1) (Marchiori & Tornadore 1988).

The substrate of the Salento Peninsula is made up of a calcareous cretaceous plinth on which lie more recent sediments, from the Oligocene to the Miocene periods, which includes the famous “pietra leccese” building stone, rich in fossils of considerable scientific interest. The climatic characteristics are typically Mediterranean: the rainfall is highest in autumn and winter, with long dried and sunny periods in summer. Temperature variations are mitigated by the presence of the sea and of winds whose intensity and direction are highly variable.

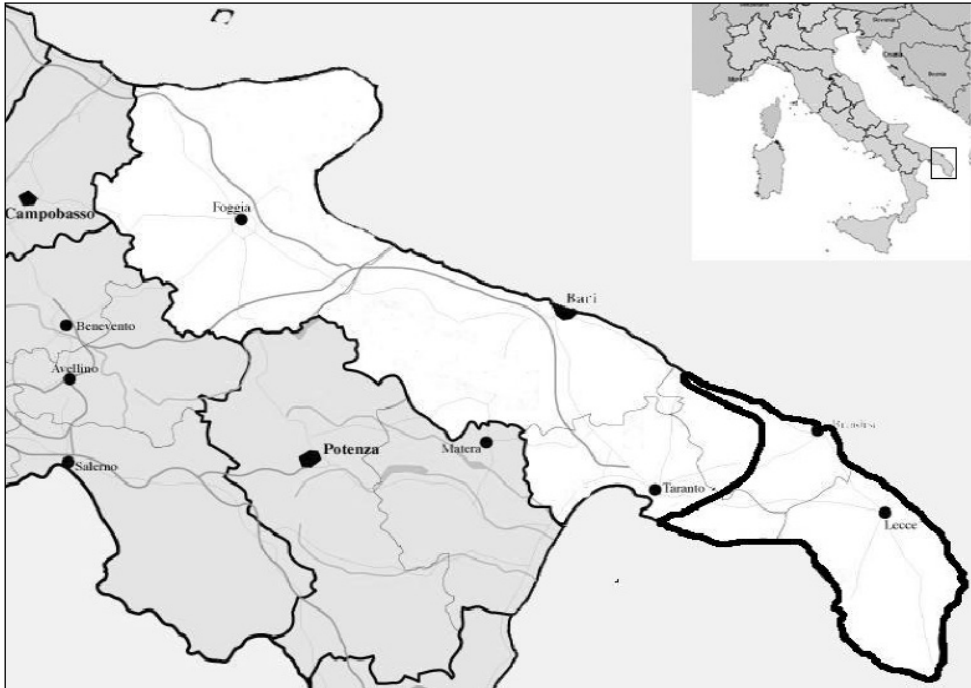


Fig. 1. Geographic delimitation of the Salento floristic region.

As well as these general characteristics, there exists a certain variability at a more local level, resulting from the type and orientation of the coasts and the presence of the modest reliefs known as the *Murge* and the *Serre salentine* (Marchiori & al. 1998b).

The study of the local flora began with the historic journeys of Rabenhorst (1849a-b, 1850a-g), Gussone (in Amico 1958), whose herbarium is preserved in Naples, and the work of Marinosci (1870). More accurate floristic research was conducted by Groves (1887). Subsequent floristic studies have concentrated on more limited areas of the Salento (Sabato & Marchiori 1989). Only in recent years a floristic research has been conducted (under the guidance of the Laboratory of Systematic Botany of the University of Lecce) in order to obtain a detailed knowledge of the whole territory, leading to the creation of the present checklist previous literature on the subject was also considered (Francini 1954; Curti & Lorenzoni 1970; Caniglia & al. 1974; Colasante 1977; Lorenzoni & al. 1977; Raffaelli 1982; Bianco & Medagli 1983-1984 (a, b); Bianco & al. 1985; Minissale & Spampinato 1986; Bianco & al. 1987; D'Emérico & al. 1987; Bianco & al. 1988; Brullo 1988; Medagli & al. 1988; Ruggiero & al. 1988; Bianco & al. 1989; Medagli & al. 1990; Bianco & al. 1991; Bianco & al. 1992; Marchiori & al. 1993; Tornadore & Marcucci 1993; Medagli & al. 1994 (a, b); Sabato & al. 1995; Accogli & al. 1996; Marchiori & al. 1998a; Tornadore & al. 1998; Marchiori & al. 1999 (a, b); Annese & al. 1999; Beccarisi & al. 1999; Rizzo & al. 1999; Vincenti & al. 1999; Albano & al. 2001; Beccarisi & al. 2001; Gennaio & Mele 2001; Medagli & Ruggiero 2002; Mele & al. 2002, 2004, 2006; Annese

& Beccarisi 2003; Beccarisi & al. 2003; Beccarisi & al. 2004a, 2004b, 2005, 2006; Accogli & al. 2005; Albano & al. 2005; Caforio & Marchiori 2006).

The flora

The Salento is a highly interesting area from the bio-geographical point of view: its geological history and geographical position mark it a meeting point between the flora of the Eastern Mediterranean Basin and that of the rest of Italy (Marchiori & al. 2000). This explains the presence of Eastern Mediterranean species such as *Ephedra foemina* Forssk., *Erica manipuliflora* L., *Quercus ithaburiensis* subsp. *macrolepis* (Kotschy) Hedge & Yalt. and *Aegialophila pumilio* (L.) Boiss.

This floristic study of the Salento is based on recent bibliographical data and field observations and floristic collections conducted over the last fifteen years; the specimens have been deposited in the Herbarium Lupiense managed by the University of Lecce (LEC). In this work we considered, in addition to the indigenous species, the naturalized and adventive exotics found in natural environments (Viegi & al. 1974). Cultivated units not recorded in the wild, species that are probably extinct or whose presence is doubtful were not included in the list.

For the identification we referred to Pignatti (1982) and Tutin & al. (1968-80; 1993). The list follows the systematic arrangement of Pignatti (1982), while for the nomenclature we referred to Conti & al. (2005). For critical taxa, specific articles or monographic works were considered; these include the taxa belonging to the Pteridophytes (Marchetti 2004), *Orchidaceae* (Grünanger 2001) and the following genera: *Daucus* L. (Sáenz 1981), *Orobanche* L. (Camarda 1983), *Ornithogalum* L. (Garbari & al. 2003).

For each taxon we have indicated the life-form category in accordance with the Raunkiaer system (1934), the chorological element, the habitat in which the taxon is most typically found and, for the rare or very rare taxa, the bibliographical reference giving information on distribution.

Floristic list

PTERIDOPHYTA

SELAGINELLACEAE

Selaginella denticulata (L.) Spring. - Ch rept - Stenomedit. - cliffs and woods

ISOETACEAE

Isoetes histrix Bory - G bulb - Atl. - temporary ponds, arid meadows
Marchiori & al. 1993

EQUISETACEAE

Equisetum ramosissimum Desf. - G rhiz - Boreal - humid meadows and canals
Equisetum telmateia Ehrh. - G rhiz - Boreal - humid meadows and canals

OPHIOGLOSSACEAE

Ophioglossum lusitanicum L. - G rhiz - Atl. - temporary ponds
Beccarisi & al. 2001

SINOPTERIDACEAE

Cosentinia vellea (Aiton) Tod. subsp. *vellea* - H ros - Eurimedit. – cliffs
Marchiori & al. 1993

ADIANTACEAE

Adiantum capillus-veneris L. - G rhiz - Wide distribution - humid and wet cliffs

GYMNOGRAMMACEAE

Anogramma leptophylla (L.) Link - T caesp - Wide distribution - woods, humid cliffs and
dry stone walls
Beccarisi & al. 2001

THELYPTERIDACEAE

Thelypteris palustris Schott - G rhiz - Wide distribution - humid meadows
Annese & Beccarisi 2003

HYPOLEPIDACEAE

Pteridium aquilinum (L.) Kuhn subsp. *aquilinum* - G rhiz - Wide distribution - uncoltivated
lands and pine woods

ASPLENIACEAE

Asplenium marinum L. - H ros - Eurasiat. - humid cliffs
Beccarisi & al. 2001

Asplenium onopteris L. - H ros - Eurasiat. - wood and humid cliffs
Marchiori & al. 1998a, Beccarisi & al. 1999, Beccarisi & al. 2001

Asplenium trichomanes subsp. *quadrivalens* D. E. Mey. - H ros - Wide distribution - shady
cliffs, woods

Ceterach officinarum Willd. subsp. *officinarum* - H ros - Eurasiat. – walls, dry stone walls

Phyllitis scolopendrium (L.) Newman subsp. *scolopendrium* - H ros - Boreal - shady cliffs

ASPIDIACEAE

Cyrtomium falcatum (L. f.) C. Presl. – G rhiz – Exotic – humid cliffs
Beccarisi & al. 2001, 2006

Dryopteris affinis subsp. *borreri* (Newman) Fraser - Jenk – G rhiz - Wide distribution -
humid cliffs

Beccarisi & al. 2001

Dryopteris pallida (Bory) Maire & Petitm. subsp. *pallida* - G rhiz - Eurimedit. - humid
cliffs

Beccarisi & al. 2001

Polystichum aculeatum (L.) Roth - G rhiz - Eurasiat. - humid cliffs

Beccarisi & al. 2001

POLYPODIACEAE

Polypodium cambricum L. – H ros - Eurimedit. – woods, cliffs

AZOLLACEAE

Azolla filiculoides Lam. – I nat - Exotic – stagnant waters, canals
Beccarisi & al. 2001

GYMNOSPERMAE*PINACEAE*

Pinus pinaster Aiton – P scap – Stenomedit.– reafforestations
Pinus halepensis Miller – P scap- Stenomedit. – reafforestations

CUPRESSACEAE

Juniperus oxycedrus subsp. *macrocarpa* (S & S.) Neirl. - P caesp - Eurimedit. – maritime dunes
Juniperus phoenicea L. s.l. – P caesp - Eurimedit. – dunes, cliffs
Juniperus phoenicea subsp. *turbinata* (Guss.) Nyman – P caesp - Eurimedit. - dunes, cliffs

EPHEDRACEAE

Ephedra foeminea Forssk. (*E. campylopoda* Mayer) – NP - Stenomedit. – cliffs
Bianco & al. 1988

ANGIOSPERMAE***Dicotyledones****SALICACEAE*

Salix alba L. – P scap - Eurasiat. - humid environments
Populus alba L. – P scap - Eurasiat. – humid environments
Populus nigra L. – P scap – Eurasiat. - humid environments

FAGACEAE

Quercus pubescens Willd. subsp. *pubescens* (incl. *Q. virgiliana* (Ten.) Ten. and *Q. ampli-
folia* Guss.) - P scap - Eurasiat. – oak-grove
Quercus coccifera L. (*Q. calliprinos* Webb.) – P scap - Stenomedit. - woods
Quercus frainetto Ten. – P scap - Eurasiat. – on edge of cultivated area
Medagli & al. 1990
Quercus ilex L. subsp. *ilex* – P scap - Stenomedit. - woods
Quercus ithaburensis subsp. *macrolepis* (Kotschy) Hedge & Yalt. – P scap - Stenomedit. -
edges on cultivated area, woods
Accogli & al. 2005
Quercus suber L. – P scap - Stenomedit. – woods, cultivated area
Quercus trojana Webb subsp. *trojana* – P scap - Eurasiat. – woods, on edge of cultivated area

ULMACEAE

Celtis australis L. subsp. *australis* - P scap - Eurimedit. - on edge of cultivated area

Ulmus glabra Hudson - P scap - Eurasiat. - wetlands, on edge of cultivated area

Ulmus minor Mill. subsp. *minor* - P caesp - Eurasiat. - humid environments

MORACEAE

Broussonetia papyrifera (L.) Vent. - P caesp - Eurasiat. - cultivated and rarely subspontaneous

Ficus carica L. - P scap - Stenomedit. - cultivated, walls, cliffs where frequently it occurs as spontaneous

URTICACEAE

Parietaria cretica L. - T scap - Stenomedit. - walls, cliffs

Parietaria judaica L. - H scap - Eurimedit. - ruderal environments, walls

Parietaria lusitanica L. subsp. *lusitanica* - T rept - Stenomedit. - dry stone walls, karst valley

Parietaria officinalis L. - H scap - Eurasiat. - ruderal environments

Urtica dioica L. subsp. *dioica* - H scap - Wide distribution - ruderal environments

Urtica membranacea Poir. ex Savigny - T scap - Stenomedit. - ruderal environments

Urtica pilulifera L. - T scap - Stenomedit. - shady environments

Urtica urens L. - T scap - Wide distribution - dry stone walls, ruderal environments

SANTALACEAE

Osyris alba L. - NP - Eurimedit. - garigues, maquis, dry stone walls

Thesium humile Vahl - T scap - Atl. - arid meadows, rocks

Thesium linophyllum L. - G rad - Eurasiat. - garigues

ARISTOLOCHIACEAE

Aristolochia rotunda L. subsp. *rotunda* - G bulb - Eurimedit. - undergrowth

RAFFLESIACEAE

Cytinus hypocistis (L.) L. - G rad - Stenomedit. - maquis on the *Cistus* sp. pl.

Cytinus ruber Fourr. ex Fritsch - G rad - Stenomedit. - maquis on the *Cistus* sp. pl.

CACTACEAE

Opuntia ficus-indica (L.) Mill. - P succ - Exotic - ruderal environments

Opuntia amyclaea Ten. - P succ - Exotic - adventive, ruderal environments

POLYGONACEAE

Polygonum equisetiforme Sm. - Ch suffr - Eurasiat. - humid uncultivated environments

Polygonum romanum Jacq. - Ch suffr - Endem. - uncultivated lands

Polygonum maritimum L. - H rept - Wide distribution - sandy environments

Polygonum arenarium subsp. *pulchellum* - T rept - Stenomedit. - sandy soils

Polygonum aviculare L. subsp. *aviculare* - T rept - Wide distribution - ruderal environments

Polygonum aviculare subsp. *rurivagum* (Jord. ex Boreau) Berher - T rept - Wide distribution - ruderal environments

Polygonum arenastrum Boreau subsp. *arenastrum* - T rept - Wide distribution - ruderal environments

Raffaelli 1982

Persicaria decipiens (R. Br.) K. L. Wilson - H scap - Wide distribution - humid environments

Persicaria lapathifolia (L.) Delarbre - T scap - Eurasiat. - humid environments, marshes

Persicaria maculosa (L.) Gray - T scap - Wide distribution - ruderal environments

Persicaria orientalis (L.) Spach - T scap - Exotic - watercourses

Fallopia convolvulus (L.) Á. Löve - T scap - Boreal - ruderal environments

Fallopia dumetorum (L.) Holub - T scap - Eurasiat. - ruderal environments

Rumex acetosella L. s.l. - H scap - Wide distribution - uncultivated lands

Rumex thyrsoides Desf. - H scap - Stenomedit. - ruderal environments

Rumex hydrolapathum Huds. - H scap - Eurasiat. - humid environments

Rumex crispus L. - H scap - Wide distribution - ruderal environments, uncultivated lands

Rumex conglomeratus Murray - H scap - Eurasiat. - cane-brakes

Rumex sanguineus L. - H scap - Eurasiat. - humid environments

Rumex pulcher L. subsp. *pulcher* - H scap - Eurimedit. - roadside soil, ruderal environments

Rumex obtusifolius L. subsp. *obtusifolius* - H scap - Eurasiat. - uncultivated soils

Rumex bucephalophorus L. subsp. *bucephalophorus* - T scap - Eurimedit. - fields, ruderal environments

Emex spinosa (L.) Campd. - T scap - Eurimedit. - sandy soils

CHENOPODIACEAE

Beta vulgaris subsp. *maritima* (L.) Arcang. - H scap - Eurimedit. - cliffs, uncultivated lands along the coast

Beta vulgaris L. subsp. *vulgaris* - H scap - Eurimedit. - uncultivated lands

Chenopodium ambrosioides L. - T scap - Exotic - roadside soil

Chenopodium multifidum L. - H scap - Exotic - flower-beds, roadside soil

Chenopodium polyspermum L. - T scap - Boreal - fields, humid saline environments

Chenopodium vulvaria L. - T scap - Eurimedit. - flower-beds, ruderal environments

Chenopodium urbicum L. - T scap - Eurasiat. - ruderal environments

Chenopodium murale L. - T scap - Wide distribution - dry stone walls, roadside soil

Chenopodium opulifolium Schrad. ex W. D. J. Koch & Ziz - T scap - Eurasiat. - ruderal environments

Chenopodium album L. - T scap - Wide distribution - fields, ruderal environments

Atriplex halimus L. - P caesp - Atl. - saline uncultivated lands along the coast

Atriplex tatarica L. - T scap - Eurasiat. - cliffs

Atriplex patula L. - T scap - Boreal - humid saline environments

Atriplex prostrata Boucher ex DC. - T scap - Boreal - humid environments

Atriplex portulacoides L. - Ch frutt - Boreal - humid saline environments

Camphorosma monspeliaca L. - Ch frutt - Eurasiat. - cliffs

Bassia hirsuta (L.) Asch. - T scap - Eurasiat. - saline nitrophilous soils of the coast
 Vincenti & al. 1999

Bassia scoparia (L.) Schrader subsp. *scoparia* (*Kochia scoparia* (L.) Schrader) - T scap - Exotic - cultivated and subspontaneous

Arthrocnemum macrostachyum (Moric.) Moris - Ch succ - Eurimedit. – cliffs, saline humid environments

Sarcocornia fruticosa (L.) A. J. Scott – Ch succ - Eurimedit. - saline humid environments

Sarcocornia perennis (Mill.) A. J. Scott – Ch succ - Eurimedit. - saline humid environments
Annese & al. 1999

Salicornia patula Duval-Jouve – T scap - Eurasiat. – saline humid meadows

Salicornia emerici Duval-Jouve – T scap - Eurimedit. - saline humid meadows

Suaeda maritima (L.) Dumort. – T scap - Wide distribution – saline humid environments

Suaeda vera J. F. Gmel. – NP - Wide distribution – cliffs, saline humid environments

Salsola soda L. – T scap - Eurasiat. – saline soil

Salsola kali L. – T scap - Eurasiat. - sands

AMARANTHACEAE

Amaranthus retroflexus L. – T scap - Wide distribution – ruderal environments, cultivated area

Amaranthus albus L. – T scap – Exotic - ruderal environments, cultivated area

Amaranthus graecizans L. – T scap - Wide distribution - ruderal environments

Amaranthus deflexus L. – T scap – Exotic - ruderal environments

Amaranthus viridis L. – T scap – Exotic – naturalized, ruderal environments

Amaranthus blitum L. subsp. *blitum* – T scap - Eurimedit. - ruderal environments

NYCTAGINACEAE

Mirabilis jalapa L. – G bulb – Exotic – cultivated and naturalized in ruderal environments

AIZOACEAE

Carpobrotus acinaciformis (L.) L. Bolus – Ch suffr – Exotic – naturalized, sandy and rocky soils

Carpobrotus edulis (L.) N. E. Br. – Ch suffr – Exotic - naturalized, sandy soils

Aptenia cordifolia (L. fil.) N. E. Br - Ch suffr - Exotic - adventive, ruderal environments

Mesembryanthemum nodiflorum L. - T scap - Stenomedit. - cliffs

PORTULACACEAE

Portulaca oleracea L. - T scap - Wide distribution - fields, ruderal environments

CARYOPHYLLACEAE

Arenaria serpyllifolia L. subsp. *serpyllifolia* – T scap - Wide distribution - ruderal environments

Arenaria leptoclados (Rchb.) Guss. – T scap - Wide distribution – arid meadows

Minuartia hybrida (Vill.) Shischk. subsp. *hybrida* - T scap - Eurasiat. - maquis, garigues

Minuartia mediterranea (Link) K. Malý - T scap - Eurimedit. - ruderal environments

Minuartia verna subsp. *attica* (Boiss. & Spruner) Graebn. - Ch suffr - Eurasiat. - garigues, dry stone walls, uncultivated lands

Rhodalsine geniculata (Poir.) F. N. Williams - Ch suffr - Stenomedit. – sand, cliffs

Stellaria media (L.) Vill. subsp. *media* - T rept - Wide distribution - ruderal environments

Stellaria neglecta Weihe – T scap - Eurasiat. - ruderal environments

Stellaria pallida (Dumort.) Crép. - T scap - Eurasiat. - ruderal environments

- Cerastium glomeratum* Thuill. - T scap - Eurimedit. - uncultivated lands
Cerastium pumilum Curtis - T scap - Eurimedit. - garigues, arid meadows
Cerastium diffusum Pers. subsp. *diffusum* - T scap - Atl. - uncultivated lands
Cerastium semidecandrum L. - T scap - Eurasiat. - ruderal environments
Cerastium balearicum F. Herm - T scap - Stenomedit. - ruderal environments
Moenchia mantica (L.) Bartl. - T scap - Eurimedit. - glades
 Marchiori & al.1993
Sagina procumbens L. - H caesp - Wide distribution - trampled lands
Sagina apetala Ard. subsp. *apetala* - T scap - Eurimedit. - ruderal environments
Sagina maritima G. Don - T scap - Atl. - halophilous meadows
Scleranthus annuus L. - T scap - Wide distribution - arid uncultivated lands
Herniaria glabra L. subsp. *glabra* - T scap - Eurasiat. - ruderal environments
Herniaria hirsuta L. subsp. *hirsuta* - T scap - Eurasiat. - stony environments
Polycarpon tetraphyllum subsp. *diphyllum* (Cav.) Bolòs & Font Quer - T scap -
 Stenomedit. - dry stone walls, arid meadows
Polycarpon tetraphyllum (L.) L. - T scap - Eurimedit. - ruderal environments
Spergula arvensis L. - T scap - Wide distribution - olive yard
Spergularia salina J. & C. Presl. - T scap - Wide distribution - saline humid environments
Spergularia rubra (L.) J. & C. Presl - Ch suffr - Wide distribution - ruderal environments
Agrostemma githago L. - T scap - Eurasiat. - fields
Silene italica (L.) Pers. subsp. *italica* - H ros - Eurimedit. - ruderal environments
Silene nemoralis Waldst. & Kit. - H ros - Eurimedit. - dry stone walls, ruderal environments
Silene nutans L. - H ros - Eurasiat. - ruderal environments
Silene vulgaris subsp. *tenoreana* (Colla) Soldano & F. Conti - H scap - Stenomedit. - ruder-
 al environments, cliffs
Silene latifolia Poir. subsp. *latifolia* - H bienn - Stenomedit. - uncultivated soils
Silene fuscata Brot. - T scap - Stenomedit. - uncultivated soils
Silene diversifolia Oth. - T scap - Stenomedit. - ruderal environments
Silene sedoides Poir. subsp. *sedoides* - T scap - Stenomedit. - cliffs
Silene coelirosa (L.) Godr. - T scap - Medit.-Mont. - uncultivated lands, arid pastures
Silene dichotoma Ehrh. - T scap - Eurasiat. - ruderal environments
Silene nocturna L. - T scap - Stenomedit. - meadows
Silene gallica L. - T scap - Eurimedit. - ruderal environments
Silene apetala Willd. - T scap - Stenomedit. - ruderal environments
Silene colorata Poir. - T scap - Stenomedit. - coastal sands
Silene bellidifolia Jacq. - T scap - Eurimedit. - edge of woods, ruderal environments
Silene conica L. - T scap - Eurasiat. - arid meadows, uncultivated environments
Saponaria officinalis L. - H scap - Eurasiat. - walls, ruderal environments
Vaccaria hispanica (Mill.) Rauschert - T scap - Exotic - ruderal environments
Petrorhagia saxifraga (L.) Link subsp. *saxifraga* - H caesp - Eurimedit. - arid meadows
Petrorhagia saxifraga subsp. *gasparrinii* (Guss.) Greuter & Burdet - H caesp - Eurimedit.
 - arid meadows
Petrorhagia prolifera (L.) P.W. Ball & Heywood - T scap - Eurimedit. - arid meadows
Petrorhagia dubia (Raf.) G. López & Romo - T scap - Stenomedit. - garigues, arid meadows
Dianthus armeria L. subsp. *armeria* - T scap - Eurasiat. - oak grove

Dianthus sylvestris subsp. *longicaulis* (Ten.) Greuter & Burdet – H scap - Medit.-Mont. – stony pastures

Dianthus japgicus Bianco & Brullo – Ch suffr - Endem. – cliffs
Brullo 1988

NYMPHAEEAE

Nymphaea alba L. – I rad - Eurasiat. – standing waters
Annese & al. 1999

CERATOPHYLLACEAE

Ceratophyllum submersum L. subsp. *submersum* - I rad - Eurasiat. – canals, stream waters
Beccarisi & al. 2003, 2006

RANUNCULACEAE

Nigella arvensis L. subsp. *arvensis* – T scap - Eurimedit. - roadside soils

Nigella damascena L. – T scap - Eurimedit. - ruderal environments

Delphinium halteratum Sm. subsp. *halteratum* – T scap - Stenomedit. – garigues, dry stone walls, uncultivated lands

Consolida ajacis (L.) Schur - T scap - Eurimedit. - roadside soils, ruderal environments

Consolida regalis Gray – T scap - Eurimedit. - ruderal environments

Consolida pubescens (DC.) Soó – T scap - Eurasiat. - ruderal environments

Anemone hortensis L. subsp. *hortensis* - G bulb - Stenomedit. - uncultivated lands

Anemone coronaria L. – G bulb - Stenomedit. – fields, uncultivated lands

Clematis flammula L. – P lian - Eurimedit. - dry stone walls

Clematis cirrhosa L. – P lian - Stenomedit. – undergrowth, dry stone walls

Adonis annua L. – T scap - Eurimedit. – uncultivated lands

Ranunculus velutinus Ten. – H scap - Eurimedit. – undergrowth, garigues, maquis

Ranunculus bulbosus L. – H scap - Eurasiat. – humid meadows

Ranunculus neapolitanus Ten. – H scap - Eurasiat. – pastures, dry stone walls

Ranunculus sardous Crantz – T scap - Eurimedit. - ruderal environments

Ranunculus muricatus L. – T scap - Eurimedit. - ruderal environments

Ranunculus parviflorus L. – T scap – Atl. - ruderal environments

Ranunculus paludosus Poir. – H scap - Stenomedit. – humid uncultivated environments

Ranunculus millefoliatus Vahl – H scap - Medit.-Mont. - meadows

Ranunculus ficaria subsp. *ficariiformis* (F. W. Schultz) Rouy & Foucaud – G bulb - Eurimedit. - humid uncultivated environments

Ranunculus bullatus L. – H ros - Stenomedit. – arid meadows

Ranunculus ophioglossifolius Vill. – T scap - Eurimedit. – humid meadows

Ranunculus peltatus subsp. *baudotii* (Godr.) C. D. K. Cook – I rad - Atl. – humid environments
Beccarisi & al. 2006

Ranunculus trichophyllus Chaix subsp. *trichophyllus* – I rad - Eurasiat. - standing waters

GUTTIFERAE

Hypericum perforatum L. – H scap - Stenomedit. - ruderal environments

Hypericum tetrapterum Fr. - H scap - Eurasiat. - ruderal environments

Hypericum perforatum L. – H scap - Eurasiat. - ruderal environments

Hypericum triquetrifolium Turra – H scap - Stenomedit. - ruderal environments

LAURACEAE

Laurus nobilis L. – P caesp - Stenomedit. – woods, mixed with oak and pine, maquis

PAPAVERACEAE

Papaver somniferum L. – T scap - Eurimedit. - ruderal environments

Papaver rhoeas L. subsp. *rhoeas* – T scap - Medit.-Mont. – fields, ruderal and uncultivated lands

Papaver apulum Ten. – T scap - Medit.-Mont. – pastures, olive yard

Papaver hybridum L. – T scap - Stenomedit. - ruderal environments

Glaucium flavum Crantz – H scap - Eurimedit. – sandy and uncultivated lands near the coastal environments

Hypocoum procumbens L. subsp. *procumbens* – T scap - Eurasiat. – uncultivated lands

Fumaria agraria Lag. – T scap - Stenomedit. - ruderal environments

Fumaria capreolata L. subsp. *capreolata* – T scap - Eurimedit. - ruderal environments

Fumaria flabellata Gasp. – T scap - Stenomedit. – fields, ruderal environments

Fumaria densiflora DC. – T scap - Wide distribution - ruderal environments

Fumaria officinalis L. subsp. *officinalis* – T scap - Eurasiat. - uncultivated lands

Fumaria parviflora Lam. – T scap - Eurimedit. - uncultivated lands, fields

CAPPARIDACEAE

Capparis spinosa subsp. *rupestris* (Sm.) Nyman – NP - Eurasiat. – dry stone walls, stony pastures

CRUCIFERAE

Sisymbrium irio L. – T scap - Eurasiat. - ruderal environments

Sisymbrium orientale L. subsp. *orientale* - T scap - Eurimedit. - ruderal environments

Sisymbrium officinale (L.) Scop. – T scap - Eurasiat. - ruderal environments

Arabidopsis thaliana (L.) Heynh. – T scap - Eurasiat. - uncultivated lands, olive yard

Isatis tinctoria L. subsp. *tinctoria* – H bienn - Exotic - ruderal environments

Bunias erucago L. – T scap - Eurimedit. - ruderal environments

Erysimum crassistylum C. Presl – H bienn - Stenomedit. - uncultivated lands

Maresia nana (DC.) Batt. – T scap – Stenomedit. - olive yard

Matthiola incana (L.) R. Br. – Ch suffr - Stenomedit. – dunes, rocks

Matthiola sinuata (L.) R. Br. – H scap - Atl. - dunes

Matthiola tricuspidata (L.) R. Br. – T scap - Stenomedit. – dunes, uncultivated lands near the coast

Barbarea vulgaris R. Br. – H scap - Wide distribution - humid environments

Nasturtium officinale R. Br. subsp. *officinale* – H scap - Wide distribution – canals, streams

Cardamine hirsuta L. – T scap - Wide distribution - ruderal environments

Lobularia maritima (L.) Desf. – H scap – Stenomedit. - ruderal environments

Arabis hirsuta (L.) Scop. – H bienn - Eurasiat. - uncultivated lands

Arabis verna (L.) R. Br. – T scap – Stenomedit. - arid uncultivated lands

Alyssum campestre (L.) L. subsp. *campestre* – T scap - Stenomedit. - arid meadows

- Aurinia leucadea* (Guss.) Koch – Ch suffr - Endem. - cliffs
Berteroa obliqua (Sm.) DC. subsp. *obliqua* - H scap - Stenomedit. - roadside soils, uncultivated lands
 Marchiori & al. 1993
Clypeola jonthlaspi L. – T scap - Stenomedit. – arid meadows, stony pastures
Erophila verna subsp. *praecox* (Steven) Walp. – T scap – Boreal - uncultivated lands, ruderal environments
Neslia paniculata subsp. *thracica* (Velen.) Bornm. – T scap - Stenomedit. – olive yard
Capsella bursa-pastoris (L.) Medik. subsp. *bursa-pastoris* - H bienn - Wide distribution - ruderal environments
Capsella rubella Reut. - T scap - Eurimedit. - ruderal environments
Hornungia procumbens (L.) Hayek - T scap - Wide distribution – arid meadows
Thlaspi perfoliatum L. subsp. *perfoliatum* - T scap - Eurasiat. - garigues
Biscutella laevigata L. subsp. *laevigata* - H scap - Orophilous S-Europ. - pasture, uncultivated lands
Biscutella maritima Ten. (*B. lyrata* L.) - T scap - Endem. - uncultivated lands, dry stone walls
Biscutella didyma L. subsp. *didyma* - T scap - Stenomedit. - uncultivated lands
Lepidium sativum L. subsp. *sativum* - T scap - Exotic - adventive, ruderal environments
Lepidium virginicum L. - T scap - Exotic – adventive, uncultivated lands
Lepidium ruderale L. - T scap - Eurasiat. - ruderal environments
Lepidium graminifolium L. subsp. *graminifolium* - H scap - Eurimedit. - uncultivated lands
Lepidium draba L. subsp. *draba* - G rhiz - Eurimedit. - ruderal environments
Coronopus squamatus (Forssk.) Asch. - T rept - Eurimedit. - ruderal environments
Diplotaxis erucooides (L.) DC. subsp. *erucooides* - T scap - Stenomedit. - uncultivated lands
Diplotaxis tenuifolia (L.) DC. – H scap - Atl. - uncultivated lands
Diplotaxis viminea (L.) DC. – T scap - Eurimedit. - ruderal environments, dry stone walls
Brassica oleracea L. - Ch suffr - Exotic - naturalized, ruderal environments
Brassica napus L. subsp. *napus* - T scap - Exotic - naturalized, ruderal environments
Brassica rapa L. - T scap - Eurimedit. - uncultivated lands
Brassica tournefortii Gouan - T scap - Eurimedit. - back dunes, sandy soils
Brassica nigra (L.) W.D.J. Koch – T scap - Eurimedit. - ruderal environments
Sinapis arvensis L. subsp. *arvensis* – T scap - Stenomedit. - uncultivated lands, fields
Sinapis pubescens L. subsp. *pubescens* – Ch suffr - Stenomedit. - uncultivated lands
Sinapis alba L. subsp. *alba* – T scap - Medit.-Mont. - uncultivated lands, ruderal environments
Eruca sativa Miller – T scap - Stenomedit. - uncultivated lands
Hirschfeldia incana (L.) Lagr.-Foss. subsp. *incana* – H scap - Eurimedit. - ruderal environments
Cakile maritima Scop. subsp. *maritima* – T scap - Eurimedit. - dunes
Rapistrum rugosum (L.) Arcang. – T scap - Eurimedit. - ruderal environments
Calepina irregularis (Asso) Thell. – T scap - Stenomedit. - uncultivated lands
Raphanus raphanistrum L. subsp. *raphanistrum* - T scap - Eurimedit. - ruderal environments, roadside soils

RESEDACEAE

- Reseda alba* L. subsp. *alba* – T scap - Stenomedit. - uncultivated lands, roadside soils
Reseda phyteuma L. subsp. *phyteuma* – T scap - Eurimedit. - dry stone walls
Reseda lutea L. subsp. *lutea* – H scap - Eurasiat. – fields, uncultivated lands

CRASSULACEAE

Tillaea muscosa L. (*Crassula tillea* Lester-G.) – T scap - Atl. - uncultivated lands, dry stone walls

Marchiori & al. 1993

Tillaea vaillantii Willd. – T scap - Atl. – arid meadows

Umbilicus rupestris (Salisb.) Dandy – G bulb - Atl. - dry stone walls

Umbilicus horizontalis (Guss.) DC. – G bulb - Stenomedit. - ruderal environments

Umbilicus chloranthus Heldr. & Sart. ex Boiss. – G bulb - Amphiadriatic – rocks

Marchiori & al. 1993

Sedum sediforme (Jacq.) Pau – Ch succ - Stenomedit. - ruderal environments

Sedum hispanicum L. – T scap - Eurasiat. – cliffs, rocks

Phedimus stellatus (L.) Raf. – T scap - Stenomedit. - dry stone walls

SAXIFRAGACEAE

Saxifraga tridactylites L. - T scap - Eurimedit. – garigues, stony pastures

ROSACEAE

Filipendula vulgaris Moench - H scap - Eurasiat. - shady lands

Rubus ulmifolius Schott - NP - Eurimedit. - ruderal environments

Rubus canescens DC. - NP - Eurimedit. - ruderal environments

Rosa canina L. - NP – Eurasiat. - probably only sub-spontaneous specimen

Rosa sempervirens L. – NP - Stenomedit. - underbrush

Agrimonia eupatoria L. subsp. *eupatoria* - H scap - Wide distribution - humid environments

Sanguisorba minor subsp. *balearica* (Bourg. ex Nyman) Muñoz Garm. & Navarro - H scap - Eurasiat. - ruderal environments

Sarcopoterium spinosum (L.) Spach – NP - Stenomedit. – garigues

Lorenzoni & al. 1977

Potentilla recta L. subsp. *recta* – H scap - Eurasiat. - garigues

Potentilla hirta L. – H scap - Eurimedit. - ruderal environments

Potentilla reptans L. – H ros - Eurasiat. – humid uncultivated environments

Aphanes arvensis L. – T scap - Wide distribution – fields, olive yard

Pyrus spinosa Forssk. (*Pyrus amygdaliformis* Vill.) – P caesp - Stenomedit. – hedges, maquis

Malus sylvestris (L.) Mill. – P scap - Eurasiat. – maquis, woods

Sorbus domestica L. – P scap – Eurimedit. – cultivated but become wild

Mespilus germanica L. – P caesp - Eurasiat. – woods

Crataegus monogyna Jacq. – P caesp - Eurasiat. – hedges, woods, dry stone walls

Prunus spinosa L. subsp. *spinosa* – P caesp - Eurasiat. - hedges, arid stone pastures

LEGUMINOSAE

Cercis siliquastrum L. subsp. *siliquastrum* – P scap - Eurasiat. - roadside soils

Ceratonia siliqua L. – P caesp - Stenomedit. - roadside soils, maquis

Gleditsia triacanthos L. – P caesp – Exotic – adventice, hedges

Acacia karroo Hayne – P caesp – Exotic – woody edges, back dune areas

- Acacia longifolia* (Andrews) Willd. – P scap – Exotic – ruderal environments
Anagyris foetida L. – P caesp - Stenomedit. - maquis
Calicotome infesta (C. Presl) Guss. subsp. *infesta* – P scap - Stenomedit. – maquis, woods
Cytisus villosus Pourr. - P caesp - Eurimedit. - pine-woods undergrowth
Cytisus spinescens C. Presl - Ch suffr - Endem. - garigues, maquis
Spartium junceum L. - P caesp - Eurimedit. - roadside soils
Lupinus gussoneanus Agardh – T scap - Stenomedit. - maquis
Lupinus albus L. subsp. *albus* – T scap - Stenomedit. - uncultivated lands
Robinia pseudacacia L. - P caesp - Exotic - naturalized, roadside soils
Astragalus boeoticus L. - T scap - Stenomedit. - ruderal environments
Astragalus sesameus L. - T scap - Stenomedit. - garigues
Astragalus hamosus L. - T scap - Stenomedit. - ruderal environments
Amorpha fruticosa L. - P caesp - Exotic - dune
Bituminaria bituminosa (L.) C.H. Stirt. – H scap - Eurimedit. - ruderal environments
Vicia villosa subsp. *microphylla* (D’Urv.) P.W. Ball - T scap - Eurimedit. - roadside soils, ruderal environments
Rizzo & al. 1999
Vicia villosa Roth subsp. *villosa* - T scap - Eurimedit. - ruderal environments
Vicia villosa subsp. *varia* (Host) Corb. - T scap - Eurimedit. - ruderal environments
Vicia villosa subsp. *eriocarpa* (Hausskn.) P.W. Ball – T scap - Stenomedit. - uncultivated lands
Vicia pseudocracca Bertol. – T scap - Stenomedit. - ruderal environments
Vicia benghalensis L. (*V. atropurpurea* Desf.) – T scap - Stenomedit. - ruderal environments
Vicia giacominiiana Segelberg – T scap - Endem. - arid stone pastures
Annese & al. 1999
Vicia leucantha Biv. – T scap - Stenomedit. - uncultivated lands
Vicia hirsuta (L.) Gray – T scap - Eurasiat. - uncultivated lands
Vicia disperma DC. – T scap - Stenomedit. - uncultivated lands
Vicia parviflora Cav. (*V. tenuissima* (Bieb.) Sch. & Th.)- T scap - Eurimedit. - uncultivated lands
Vicia tetrasperma (L.) Schreb. - T scap - Eurasiat. - cultivated and uncultivated lands
Vicia pubescens (DC.) Link - T scap - Eurimedit. - fields, shady environments
Vicia sativa subsp. *nigra* (L.) Ehrh. - T scap - Eurimedit. - ruderal environments
Vicia sativa subsp. *cordata* (Hoppe) Batt. - T scap - Eurimedit. - ruderal environments
Vicia sativa subsp. *macrocarpa* (Moris) Arcang. - T scap - Eurimedit. - ruderal environments, arid meadows
Vicia sativa L. subsp. *sativa* - T scap - Eurimedit. - ruderal environments
Vicia peregrina L. - T scap - Stenomedit. - ruderal environments
Vicia melanops Sm. – T scap – Orophilous - ruderal environments
Vicia lutea L. – T scap - Eurimedit. - roadside soils
Vicia hybrida L. – T scap - Eurimedit. - ruderal environments
Vicia bithynica (L.) L. – T scap - Eurimedit. – arid uncultivated lands
Lens nigricans (M. Bieb.) Godr. – T scap - Stenomedit. - roadside soils
Lens ervoides (Brign.) Grande – T scap - Eurimedit. - ruderal environments
Lathyrus sylvestris L. subsp. *sylvestris* – H scand - Eurasiat. - roadside soils
Lathyrus cicera L. – T scap - Eurimedit. - ruderal environments

- Lathyrus annuus* L. – T scap - Eurimedit. - uncultivated lands
Lathyrus clymenum L. – T scap - Stenomedit. - uncultivated lands
Lathyrus latifolius L. – H scand - Eurasiat. - uncultivated lands
Lathyrus sphaericus Retz. – T scap - Eurimedit. - maquis
Lathyrus ochrus (L.) DC. – T scap - Stenomedit. – arid meadows, uncultivated lands
Lathyrus nissolia L. – T scap - Eurimedit. - uncultivated lands, humid meadows
Lathyrus aphaca L. subsp. *aphaca* – T scap - Eurimedit. - uncultivated lands
Pisum sativum subsp. *biflorum* (Raf.) Soldano – T scap - Stenomedit. - uncultivated lands
Ononis natrix L. subsp. *natrix* – H caesp - Eurimedit. – arid meadows, garigues
Ononis ornithopodioides L. – T scap - Stenomedit. - arid meadows
Ononis reclinata L. – T scap - Stenomedit. - uncultivated lands
Ononis viscosa subsp. *breviflora* (DC.) Nyman – T scap - Eurimedit. - arid meadows, road-side soils
Ononis sieberi DC. – T scap - Stenomedit. - uncultivated lands
Ononis pusilla L. subsp. *pusilla* – H scap - Eurimedit. - garigues
Ononis spinosa subsp. *antiquorum* (L.) Arcang. – Ch suffr - Eurimedit. - ruderal environments
Ononis variegata L. – T scap - Stenomedit. - dune
Ononis diffusa L. – T scap - Stenomedit. - dry stone walls
Melilotus albus Medik. – T scap – Wide distribution – humid uncultivated lands
 Beccarisi & al. 2006
Melilotus italicus (L.) Lam. – T scap - Stenomedit. - uncultivated lands
Melilotus neapolitanus Ten. – T scap - Stenomedit. - uncultivated lands
Melilotus indicus (L.) All. – T scap - Stenomedit. - ruderal environments
Melilotus elegans Ser. – T scap - Stenomedit. - uncultivated lands
Melilotus sulcatus Desf. – T scap - Stenomedit. - uncultivated lands
Melilotus siculus (Turra) Steud. – T scap - Stenomedit. - ruderal environments
Trigonella maritima Poir. – T scap - Stenomedit. - uncultivated lands
Trigonella esculenta Willd. – T scap - Stenomedit. - uncultivated lands
Trigonella monspeliaca L. – T scap - Eurimedit. – arid meadows
Medicago lupulina L. – T scap - Eurasiat. - uncultivated lands
Medicago sativa L. – H scap – Eurasiat. - uncultivated lands
Medicago falcata L. subsp. *falcata* – H scap - Eurasiat. - uncultivated lands
Medicago marina L. – Ch rept - Eurimedit. - dunes
Medicago orbicularis (L.) Bartal. – T scap - Eurimedit. - uncultivated lands
Medicago intertexta (L.) Mill. – T scap - Stenomedit. - ruderal environments
Medicago scutellata (L.) Mill. – T scap - Eurimedit. – sandy uncultivated lands
Medicago rugosa Desr. – T scap - Stenomedit. - garigues
Medicago rigidula (L.) All. – T scap - Eurimedit. – arid meadows
Medicago italica (Mill.) Grande – T scap – Stenomedit - meadows
Medicago truncatula Gaertn. – T scap - Stenomedit. - arid meadows
Medicago littoralis Loisel. – T scap - Eurimedit. – dunes, sandy uncultivated lands
Medicago doliata Carmign. – T scap - Stenomedit. - uncultivated lands
Medicago turbinata (L.) All. – T scap - Stenomedit. – fields, uncultivated lands
Medicago murex Willd. – T scap - Stenomedit. - uncultivated lands

- Medicago arabica* (L.) Huds. – T scap - Eurimedit. - uncultivated lands
Medicago polymorpha L. – T scap - Eurimedit. - ruderal environments
Medicago disciformis DC. – T scap - Stenomedit. - garigues
Medicago minima (L.) L. – T scap - Eurimedit. – clearing, garigues
Trifolium repens L. subsp. *repens* – H rept - Eurasiat. - ruderal environments
Trifolium repens subsp. *prostratum* (Biasoletto) Nyman – H rept - Eurasiat. - ruderal environments
Trifolium nigrescens Viv. subsp. *nigrescens* – T scap - Eurimedit. - uncultivated lands
Trifolium glomeratum L. - T scap - Eurimedit. – arid meadows
Trifolium spumosum L. – T scap - Stenomedit. – cane-brake
Trifolium mutabile Port. – T scap - Endem. - uncultivated lands
Trifolium fragiferum L. subsp. *fragiferum* – H rept - Wide distribution – humid environments
Trifolium resupinatum L. – T rept - Eurasiat. - uncultivated lands
Trifolium tomentosum L. – T rept - Eurasiat. - ruderal environments
Trifolium patens Schreb. – T scap - Eurasiat. – humid meadows
Trifolium campestre Schreb. – T scap - Eurasiat. – clearing, ruderal and uncultivated environments
Trifolium dubium Sibth. - T scap - Eurasiat. - marsh
Trifolium micranthum Viv. – T scap - Eurasiat. – clearing, uncultivated lands
Trifolium arvense L. subsp. *arvense* – T scap - Eurasiat. – pastures, uncultivated environments
Trifolium bocconeii Savi – T scap - Stenomedit. – arid uncultivated areas
Trifolium tenuifolium Ten. – T scap - Stenomedit. - arid uncultivated areas
Trifolium phleoides Willd. – T scap - Medit.-Mont. - pastures
Trifolium scabrum L. subsp. *scabrum* – T rept - Eurimedit. – arid uncultivated lands
Trifolium stellatum L. – T scap - Eurimedit. - uncultivated lands
Trifolium incarnatum L. subsp. *incarnatum* – T scap - Eurimedit. - uncultivated lands
Trifolium incarnatum subsp. *molinerii* (Hornem.) Ces. – T scap - Eurimedit. - uncultivated lands
Trifolium pratense L. subsp. *pratense* – H scap - Eurasiat. – humid uncultivated lands
Trifolium pallidum Waldst. & Kit. – T scap - Eurimedit. – arid pastures
Trifolium lappaceum L. – T scap - Eurimedit. – garigues, arid uncultivated areas
Trifolium cherleri L. – T scap - Eurimedit. - arid uncultivated areas
Trifolium angustifolium L. subsp. *angustifolium* – T scap - Eurimedit. - ruderal and uncultivated environments
Trifolium ochroleucum Huds. – H caesp - Eurasiat. – arid meadows
Trifolium echinatum M. Bieb. – T scap - Eurasiat. - ruderal environments
Trifolium squarrosus L. – T scap - Eurimedit. - ruderal environments, humid lands
Trifolium obscurum Savi – T scap - Endem. – back dunes areas
Trifolium subterraneum L. – T rept - Eurimedit. – garigues, arid meadows
Dorycnium hirsutum (L.) Ser. – Ch suffr - Eurimedit. - maquis
Dorycnium rectum (L.) Ser. – H scap - Stenomedit. – humid environmental
Dorycnium pentaphyllum Scop. – H scap - Eurasiat. – maquis, back dunes areas
Lotus tenuis Waldst. & Kit. ex Willd. – H scap - Eurasiat. - humid environmental

- Lotus pedunculatus* Cav. – H scap - Eurasiat. - humid environmentals
Lotus corniculatus subsp. *preslii* (Ten.) P. Fourn. – H scap - Eurimedit. - humid environmentals
Lotus hispidus DC. – T scap - Eurasiat. - humid environmentals
Lotus angustissimus L. – T scap - Eurimedit. - back dunes areas
Lotus edulis L. – T scap - Stenomedit. - uncultivated lands
Lotus cytisoides L. s.l. – Ch suffr - Stenomedit. - cliffs
Lotus creticus L. – Ch suffr - Stenomedit. – sandy environments
Lotus ornithopodioides L. – T scap - Stenomedit. - uncultivated lands
Tetragonolobus purpureus Moench – T scap - Stenomedit. - ruderal environments
Hymenocarpus circinnatus (L.) Savi – H scap – Stenomedit. - uncultivated lands
Anthyllis hermanniae L. – Ch frutt - Stenomedit. – maquis
 Caniglia & al. 1974
Anthyllis barba-jovis L. – P caesp – Stenomedit. - cliffs
Anthyllis vulneraria subsp. *rubriflora* (DC.) Arcang. – H scap - Eurimedit. – arid uncultivated areas
Tripodion tetraphyllum (L.) Fourr. – T scap - Stenomedit. – arid meadows
Ornithopus compressus L. – T scap - Eurimedit. - arid uncultivated lands
Emerus majus subsp. *emeroides* (Boiss. & Spruner) Soldano & F. Conti – NP - Eurasiat. – maquis, pine-woods
Coronilla juncea L. – NP - Stenomedit. – back dunes areas, sandy soils
Coronilla scorpioides (L.) W.D.J. Koch – T scap - Eurimedit. – garigues, uncultivated areas
Hippocrepis glauca Ten. – H caesp - Eurasiat. – arid meadows
Hippocrepis comosa L. subsp. *comosa* – H caesp - Eurasiat. – arid meadows
Hippocrepis ciliata Willd. – T scap - Stenomedit. - arid meadows
Hippocrepis biflora Spreng. – T scap - Eurimedit. – arid meadows
Scorpiurus muricatus L. – T scap - Eurimedit. – arid uncultivated areas
Sulla coronaria (L.) Medik. – H scap - Stenomedit. – uncultivated lands
Sulla capitata (Desf.) B.H. Choi & H. Ohashi (*Hedysarum glomeratum* Dietrich) – T scap – Stenomedit. – arid uncultivated lands
Onobrychis alba subsp. *echinata* (G. Don) P.W. Ball – H scap - Endem. – garigues, arid meadows
Onobrychis caput-galli (L.) Lam. – T scap - Stenomedit. - uncultivated lands

OXALIDACEAE

- Oxalis corniculata* L. – H rept - Eurimedit. - ruderal environments
Oxalis stricta L. (*O. dillenii* Jacq.) – H scap - Exotic - ruderal environments
Oxalis pes-caprae L. – G bulb - Exotic –olive yard, ruderal environments
Oxalis debilis Kunth (*O. corymbosa* DC.) – G bulb - Exotic – ruderal environments

GERANIACEAE

- Geranium sanguineum* L. – H scap - Eurasiat. – stone pastures
Geranium rotundifolium L. – T scap - Eurasiat. - ruderal environments
Geranium molle L. – T scap -Eurasiat. - uncultivated lands
Geranium pusillum L. – T scap – Eurasiat.- ruderal environments

- Geranium columbinum* L. – T scap - Eurasiat. - uncultivated lands
Geranium dissectum L. – T scap - Eurasiat. – wood edge, uncultivated lands
Geranium lucidum L. – T scap - Eurimedit. - uncultivated lands
Geranium purpureum Vill. – T scap - Eurimedit. – shady environments
Erodium chium (L.) Willd. – T scap - Eurimedit. - uncultivated lands
Erodium laciniatum (Cav.) Willd. subsp. *laciniatum* - T scap - Stenomedit. - dunes
Erodium malacoides (L.) L'Hér. subsp. *malacoides* – T scap - Eurimedit. - ruderal environments
Erodium botrys (Cav.) Bertol. – T scap - Stenomedit. – arid meadows
Erodium nervulosum L'Hér. – Ch suffr - Endem. – ruderal and uncultivated areas
Erodium ciconium (L.) L'Hér. – T scap - Eurimedit. - uncultivated lands
Erodium cicutarium (L.) L'Hér. – T scap - Wide distribution - uncultivated lands
Erodium moschatum (L.) L'Hér. – T scap - Eurimedit. - ruderal environments
Erodium acaule (L.) Bech. & Thell. – H ros -Medit.-Mont. - uncultivated lands

ZYGOPHYLLACEAE

- Tribulus terrestris* L. - T rept - Wide distribution - ruderal environments

LINACEAE

- Linum austriacum* subsp. *tommasinii* (Rchb.) Greuter & Burdet – H scap - Eurasiat. - garigues
Linum decumbens Desf. – T scap – Stenomedit. – fields, olive yards
Linum usitatissimum L. - T scap - Wide distribution - ruderal environments, dry stone walls
Linum bienne Mill. – H biennn - Atl. – arid uncultivated areas
Linum maritimum L. s.l. – H scap - Eurimedit. – humid environments
 Marchiori & al. 1999a, 1999b
Linum trigynum L. – T scap - Eurimedit. – arid pastures
Linum strictum L. subsp. *strictum* – T scap - Stenomedit. – garigues, maquis

EUPHORBIACEAE

- Andrachne telephioides* L. – Ch suffr - Eurimedit. - dry stone walls
Chrozophora tinctoria (L.) Raf. – T scap - Eurimedit. - ruderal environments
Mercurialis annua L. – T scap - Eurasiat. - ruderal environments
Ricinus communis L. – P scap - Exotic - adventive, uncultivated lands
Chamaesyce nutans (Lag.) Small – T scap - Exotic - humid environments
Chamaesyce pepelis (L.) Prokh. – T rept - Eurimedit. - dunes
Chamaesyce canescens (L.) Prokh. – T rept - Eurimedit. - ruderal environments
Chamaesyce maculata (L.) Small – T scap - Exotic - naturalized, ruderal environments
Chamaesyce prostrata (Aiton) Small – T rept - Exotic - naturalized, ruderal environments
Euphorbia dendroides L. – NP - Stenomedit. – cliffs
 Bianco & Medagli 1983-1984b
Euphorbia apios L. – G bulb - Stenomedit. - garigues
Euphorbia spinosa L. subsp. *spinosa* – Ch suffr - Eurimedit. - dry stone walls, stone pastures
Euphorbia hirsuta L. – G rhiz - Eurimedit. – humid environments
Euphorbia pterococca Brot. – T scap - Stenomedit. – kars valley

- Euphorbia helioscopia* L. subsp. *helioscopia* – T scap - Eurimedit. - ruderal environments
Euphorbia exigua L. subsp. *exigua* – T scap - Eurimedit. – arid uncultivated areas
Euphorbia falcata L. subsp. *falcata* – T scap - Eurimedit. - uncultivated lands
Euphorbia pepus L. – T scap - Eurasiat. - uncultivated lands
Euphorbia segetalis L. (incl. *E. pinea* L.) – Ch suffr - Stenomedit. - uncultivated lands
Euphorbia nicaeensis All. s.l. – G rhiz - Stenomedit. - garigues
Euphorbia paralias L. – Ch frutt - Atl. - coastal dunes
Euphorbia terracina L. – T scap - Stenomedit. - ruderal environments
Euphorbia characias L. – NP - Stenomedit. - cliffs

RUTACEAE

- Ruta graveolens* L. - Ch suffr - Eurasiat. - maquis

SIMAROUBACEAE

- Ailanthus altissima* (Mill.) Swingle - P scap – Exotic – naturalized, ruderal environments

POLYGALACEAE

- Polygala monspeliaca* L. – T scap - Stenomedit. - garigues

ANACARDIACEAE

- Pistacia terebinthus* L. subsp. *terebinthus* – P caesp - Eurimedit. – maquis, woods
Pistacia lentiscus L. – P caesp - Stenomedit. – mediterranean maquis

RHAMNACEAE

- Paliurus spina-christi* Miller – P caesp – Eurasiat. - slopes
Rhamnus saxatilis subsp. *infectoria* (L.) P. Fourn. – P caesp - Eurasiat. - undergrowth
Rhamnus alaternus L. subsp. *alaternus* – P caesp - Stenomedit. – mediterranean maquis

VITACEAE

- Vitis labrusca* L. - P lian - Exotic – naturalized, ruderal environments

MALVACEAE

- Malope malacoides* L. - T scap - Stenomedit. - cliffs
Malva cretica Cav. subsp. *cretica* – T scap - Stenomedit. – uncultivated lands
Malva sylvestris L. subsp. *sylvestris* - H scap - Eurasiat. - ruderal environments
Malva nicaeensis All. – T scap - Stenomedit. - ruderal and uncultivated areas
Malva parviflora L. – T scap - Eurimedit. - ruderal environments
Malva neglecta Wallr. – T scap - Eurasiat. - uncultivated lands
Lavatera cretica L. – T scap - Stenomedit. – uncultivated lands
Lavatera arborea L. – H bienn - Stenomedit. – cliffs
Althaea officinalis L. – H scap - Wide distribution - humid environments
Alcea rosea L. (*Althaea rosea* (L.) Cav.) – H scap – Exotic - ruderal environments
Hibiscus trionum L. - T scap - Wide distribution - humid environments
- Caforio & Marchiori 2006

THYMELAEACEAE

Daphne gnidium L. - P caesp - Stenomedit. - maquis

Thymelaea hirsuta (L.) Endl. - NP - Eurasiat. - maquis on cliffs

Thymelaea passerina (L.) Coss. & Germ. - T scap - Eurimedit. - dry stone walls

VIOLACEAE

Viola odorata L. - H ros - Eurimedit. - underbrush

Viola arvensis subsp. *arvensis* - T scap - Eurasiat. - uncultivated lands

CISTACEAE

Cistus creticus L. subsp. *creticus* - NP - Stenomedit. - garigues, maquis

Cistus creticus subsp. *eriocephalus* (Viv.) Greuter & Burdet - NP - Stenomedit. - garigues, maquis

Cistus monspeliensis L. - NP - Stenomedit. - garigues, maquis

Cistus salvifolius L. - NP - Stenomedit. - garigues, maquis

Tuberaria guttata (L.) Fourr. - T scap - Eurimedit. - clearing, arid meadows

Helianthemum jonium Lacaita - Ch suffr - Endem. - arid pastures

Marchiori & al. 1993

Helianthemum salicifolium (L.) Mill. - T scap - Eurimedit. - arid uncultivated areas

Fumana thymifolia (L.) Spach ex Webb - Ch suffr - Stenomedit. - stone pastures

TAMARICACEAE

Tamarix africana Poir. - P caesp - Stenomedit. - sandy environments

Tamarix gallica L. - P caesp - Stenomedit. - humid uncultivated areas

FRANKENIACEAE

Frankenia pulverulenta L. subsp. *pulverulenta* - T scap - Stenomedit. - cliffs

Frankenia laevis L. subsp. *laevis* - Ch suffr - Eurasiat. - cliffs

Frankenia hirsuta L. - Ch suffr - Eurasiat. - cliffs

ELATINACEAE

Elatine macropoda Guss. - I rad - Stenomedit. - mediterranean temporary pool

Beccarisi & al. 2006

CUCURBITACEAE

Ecballium elaterium (L.) A. Rich. - G bulb - Eurimedit. - uncultivated lands

LYTHRACEAE

Lythrum salicaria L. - H scap - Wide distribution - humid environments

Lythrum junceum Banks & Sol. - H scap - Stenomedit. - humid environments

Lythrum hyssopifolia L. - T scap - Wide distribution - humid environments

Lythrum thymifolia L. - T scap - Stenomedit. - humid environments

MYRTACEAE

Myrtus communis L. - P caesp - Stenomedit. - Mediterranean maquis

ONAGRACEAE

Oenothera biennis L. - H bienn - Wide distribution - adventive, ruderal environments

Oenothera laciniata Hill. (*O. sinuata* L.) - T scap - Exotic – adventive, ruderal environments

Oenothera parviflora L. - H bienn - Exotic - adventive, ruderal environments

Epilobium angustifolium L. - H scap - Boreal - pine underbrush

Epilobium hirsutum L. - H scap - Eurasiat. - humid environments

Epilobium parviflorum Schreb. - H scap - Eurasiat. - canals, humid environments

Epilobium montanum L. – H scap – Eurasiat. – humid environments

Epilobium tetragonum L. subsp. *tetragonum* - H scap - Eurasiat. – humid ruderal environments

HALORAGACEAE

Myriophyllum verticillatum L. - I rad - Boreal – stagnant waters

Myriophyllum spicatum L. - I rad - Wide distribution - stagnant waters

THELIGONACEAE

Theligonum cynocrambe L. - T scap - Stenomedit. - ruderal environments

CORNACEAE

Cornus sanguinea subsp. *australis* (C. A. Mey.) Jav. - P caesp - Eurasiat. - humid environments

ARALIACEAE

Hedera helix L. subsp. *helix* - P lian - Stenomedit. - underbrush

UMBELLIFERAE

Hydrocotyle vulgaris L. – I rad - Eurasiat. – wet soils

Beccarisi & al. 2006

Eryngium barrelieri Boiss. – H scap - Stenomedit. – humid environments

Eryngium maritimum L. – G rhiz - Atl. – coastal dunes

Eryngium amethystinum L. – H scap - Eurimedit. – arid meadows

Eryngium campestre L. – H scap - Eurimedit. - uncultivated lands

Echinophora spinosa L. – H scap - Eurimedit. - coastal dunes

Scandix pecten-veneris L. subsp. *pecten-veneris* – T scap - Eurimedit. - ruderal environments

Bifora testiculata (L.) Spreng. – T scap - Stenomedit. – fields, ruderal environments

Smyrniolum olusatrum L. – H bienn - Atl. - ruderal environments

Pimpinella peregrina L. – H bienn - Eurimedit. - uncultivated lands

Berula erecta (Huds.) Coville - G rhiz - Boreal - canals

Crithmum maritimum L. - Ch suffr - Eurimedit. - cliffs

Seseli tommasinii Rechb. f. – H scap - Endem. - garigues

Oenanthe fistulosa L. – H scap - Eurasiat. – cane-brakes

Oenanthe pimpinelloides L. - H scap - Atl. - humid wood environments, humid meadows

Oenanthe silaifolia M. Bieb. – H scap - Atl. - humid environments

- Oenanthe lachenalii* C.C. Gmel. – H scap - Atl. - cane-brakes
Foeniculum vulgare Mill. – H scap - Stenomedit. - roadside soils
Cachrys libanotis L. – H scap - Stenomedit. – arid meadows, roadside soils
Cachrys pungens Jan ex Guss – H scap - Stenomedit. - ruderal environments
Bupleurum lancifolium Hornem. – T scap - Stenomedit.- arid meadows
Bupleurum baldense Turra – T scap - Eurimedit. – arid meadows
Bupleurum tenuissimum L. – T scap - Eurimedit. – clearings, woods
Bupleurum semicompositum L. – T scap - Stenomedit. - arid meadows
Apium graveolens L. - H scap - Eurasiat. – humid meadows
Apium nodiflorum (L.) Lag. subsp. *nodiflorum* – H scap - Eurimedit. – flowing waters
Ridolfia segetum (L.) Moris – T scap - Stenomedit. - uncultivated lands
Ammi majus L. - T scap - Eurimedit. - uncultivated lands, fields
Ammoides pusilla (Brot.) Breistr. - T scap - Stenomedit. – arid uncultivated areas
Carum multiflorum (Sibth. & Sm.) Boiss. subsp. *multiflorum* - H scap - Eurimedit. – cliffs
 Bianco & al. 1985
Bonannia graeca (L.) Halacsy – H scap - Endem. – arid meadows
 Marchiori & al. 1993
Ferula communis L. – H scap - Eurimedit. – dry stone walls, roadside soils
Opopanax chironium (L.) W.D.J. Koch – H scap - Stenomedit. - ruderal environments
Tordylium maximum L. – T scap - Eurimedit. - ruderal environments
Tordylium officinale L. – T scap - Stenomedit. - uncultivated lands
Tordylium apulum L. – T scap - Stenomedit. - arid uncultivated areas
Elaeoselinum asclepium (L.) Bertol. subsp. *asclepium* - T scap - Stenomedit. – maquis, woods
Thapsia garganica L. – H scap - Stenomedit. – arid meadows
Torilis nodosa (L.) Gaertn. – T scap - Eurimedit. - ruderal environments
Torilis arvensis (Huds.) Link subsp. *arvensis* – T scap - Wide distribution – shady environments
Torilis arvensis subsp. *neglecta* (Schult.) Thell. – T scap - Wide distribution – humid environments
Torilis japonica (Houtt.) DC. – T scap - Eurasiat. - ruderal environments
Orlaya daucooides (L.) Greuter (*O. kochii* Heyw.) - T scap - Stenomedit. – arid uncultivated lands
Orlaya grandiflora (L.) Hoffm. – T scap - Eurasiat. - arid uncultivated lands
Daucus muricatus (L.) L. – T scap - Stenomedit. - ruderal environments
Daucus broteri Ten. (*D. bicolor* S. & S.) - T scap - Stenomedit. - uncultivated lands
Daucus guttatus Sm. – T scap - Eurimedit. - ruderal environments
Daucus carota L. subsp. *carota* – T scap - Eurasiat. - ruderal environments
Daucus carota subsp. *maritimus* (Lam.) Batt. – H bienn - Atl. - uncultivated lands along the coast
Daucus carota subsp. *hispanicus* (Gouan) Thell (*D. carota* subsp. *gummifer* auct.; *D. gingidium* L.) – H bienn - Atl. - uncultivated lands along the coast
Daucus carota subsp. *maximus* (Desf.) Ball – H bienn - Eurasiat. - ruderal environments
Pseudorlaya pumila (L.) Grande – T scap - Stenomedit. – dunes along the coast

ERICACEAE

- Erica arborea* L. - P caesp - Stenomedit. - maquis
Erica forskalii Vitm. (*E. manipuliflora* Salisb.) - Ch suffr - Stenomedit. – maquis
 Minissale & Spampinato 1986, Marchiori & al. 1993
Arbutus unedo L. - P caesp - Stenomedit. – maquis, underbrush

PRIMULACEAE

- Cyclamen hederifolium* Aiton subsp. *hederifolium* - G bulb - Stenomedit. - woods
Asterolinon linum-stellatum (L.) Duby - T scap - Stenomedit. – arid meadows
Anagallis minima (L.) Krause – T scap – Eurasiat. – humid environments
 Beccarisi & al. 2006
Anagallis arvensis L. - T rept - Eurimedit. - meadows
Samolus valerandi L. - H caesp - Wide distribution – humid environments

PLUMBAGINACEAE

- Plumbago europaea* L. - Ch frutt - Stenomedit. – uncultivated lands
Limonium narbonense Mill. - H ros - Eurimedit. – halophilous steppes
Limonium bellidifolium (Gouan) Dumort. - H ros - Stenomedit. – cliffs along the coast
 Sabato & al. 1995
Limonium apulum Brullo - H ros - Endem. - cliffs along the coast
Limonium japygicum (Groves) Pign. - Ch suffr - Endem. - cliffs along the coast
 Curti & Lorenzoni 1970; Marchiori & al. 1998 a
Limonium virgatum (Willd.) Fourr. - H ros - Eurimedit. - cliffs along the coast
Limoniastrum monopetalum (L.) Boiss. - Ch frutt - Medit.-Mont. – calcareous cliffs along
 the coast
 Accogli & al. 1996

OLEACEAE

- Fraxinus ornus* L. – P scap – Eurasiat. - wood
Fraxinus angustifolia subsp. *oxycarpa* (Willd.) Franco & Rocha Afonso - P scap - Eurasiat.
 – maquis
Ligustrum vulgare L. - NP - Eurasiat. – maquis, humid environments
Olea europaea L. - P caesp - Stenomedit. - maquis
Phillyrea latifolia L. - P caesp - Stenomedit. – mediterranean maquis

GENTIANACEAE

- Cicendia filiformis* (L.) Delarbre - T scap - Atl. – humid environments
 Beccarisi & al. 2006
Blackstonia perfoliata (L.) Huds. subsp. *perfoliata* - T scap - Eurimedit. - arid meadows
Centaurium erythraea Rafn subsp. *erythraea* - H bienn - Eurasiat. - meadows
Centaurium pulchellum (Sw.) Druce subsp. *pulchellum* - T scap - Eurasiat. - humid envi-
 ronments
Centaurium tenuiflorum (Hoffmanns. & Link) Fritsch - T scap - Eurasiat. - meadows
Centaurium spicatum (L.) Fritsch - T scap - Eurimedit. - meadows
Centaurium maritimum (L.) Fritsch - T scap - Stenomedit. – arid meadows along the coast

APOCYNACEAE

Vinca difformis Pourr. - Ch rept - Eurasiat. - uncultivated lands

Vinca major L. subsp. *major* - Ch rept - Eurimedit. - uncultivated lands

ASCLEPIADACEAE

Periploca graeca L. - P lian - Stenomedit. - humid environments

Francini 1954; Marchiori & al. 1998a

Cynanchum acutum L. subsp. *acutum* - P lian - Wide distribution – humid meadows

Vincetoxicum hirundinaria subsp. *adriaticum* (Beck) Markgr. - H scap - Amphiadriatic - stony meadows

Marchiori & al. 1993

RUBIACEAE

Sherardia arvensis L. - T scap - Eurimedit. – arid uncultivated lands

Asperula aristata subsp. *longiflora* (Waldst. & Kit.) Hayek - H scap - Medit.-Mont. – arid meadows

Asperula cynanchica L. - H scap - Eurimedit. – stony pastures

Asperula laevigata L. - H scap - Stenomedit. - woods

Asperula arvensis L. - T scap - Eurimedit. - meadows

Galium debile Desv. - H scap - Eurimedit. – humid environments

Galium palustre subsp. *elongatum* (C. Presl) Lange - H scap - Eurimedit. - humid environments

Galium verum L. – H scap – Eurasiat. – roadside soils

Galium aparine L. - T scap - Eurasiat. – ruderal environments

Galium verrucosum Huds. - T scap - Stenomedit. - ruderal environments

Galium parisiense L. - T scap - Eurimedit. – arid meadows

Galium murale (L.) All. - T scap - Stenomedit. - ruderal environments

Valantia muralis L. - T scap - Stenomedit. – walls, cliffs

Valantia hispida L. - T scap - Stenomedit. - cliffs

Rubia peregrina L. subsp. *peregrina* - P lian - Stenomedit. – woods, dry stone walls

Rubia peregrina subsp. *longifolia* (Poir.) O. Bolos - P lian - Stenomedit. – woods, dry stone walls

CONVOLVULACEAE

Cuscuta scandens Brot. subsp. *scandens* - T par - Wide distribution – sandy soils on *Polygonum* and *Beta*

Cuscuta scandens subsp. *cesatiana* (Bertol.) Greuter & Burdet - T par - Exotic - sandy soils on *Polygonum* and *Xanthium*

Albano & al. 2005, Beccarisi & al. 2006

Cuscuta campestris Yuncker - T par - Exotic – fields on *Leguminosae*

Cuscuta europaea L. - T par - Eurasiat. - uncultivated lands on *Urtica*

Cuscuta epithymum (L.) L. subsp. *epithymum* - T par - Eurasiat. - uncultivated lands

Cressa cretica L. - Ch suffr - Wide distribution – halophilous humid meadows

Albano & al. 2001, Beccarisi & al. 2005

Calystegia soldanella (L.) Roem. & Schult. - G rhiz - Wide distribution – sandy soils

- Calystegia sepium* (L.) R. Br. subsp. *sepium* - H scand - Eurasiat. – humid environments
Calystegia sylvatica (Kit.) Griseb. – H scand – Eurasiat. - hedges
Convolvulus lineatus L. - Ch suffr - Stenomedit. – arid meadows
 Medagli & al. 1994a
Convolvulus cantabrica L. - H scap - Eurimedit. - garigues
Convolvulus pentapetaloides L. - T scap – Stenomedit. – olive yards
Convolvulus sabatius Viv. subsp. *sabatius* - G rhiz - Exotic – adventive, maquis
 Marchiori & al. 1993
Convolvulus arvensis L. - G rhiz - Eurasiat. - uncultivated lands
Convolvulus althaeoides L. - H scand - Stenomedit. – arid uncultivated lands, maquis
Convolvulus elegantissimus Mill. - H scand - Stenomedit. - arid uncultivated lands,
 garigues
Ipomoea sagittata Poiret - G rhiz - Wide distribution – humid environments
 Bianco & al. 1987, Medagli & al. 1994b
Ipomoea acuminata (Vahal) R. & S. - G rhiz - Exotic - ruderal environments

BORAGINACEAE

- Heliotropium europaeum* L. - T scap - Eurimedit. - uncultivated lands
Lithospermum officinale L. - H scap - Eurasiat. - uncultivated lands
Neostema apulum (L.) I.M. Johnst. - T scap - Stenomedit. - garigues
Buglossoides arvensis (L.) I.M. Johnst. - P scap - Eurimedit. - uncultivated lands
Cerinthe major L. - T scap - Stenomedit. - uncultivated lands, ruderal environments
Alkanna tinctoria Tausch subsp. *tinctoria* - H scap - Stenomedit. - uncultivated lands
Echium asperrimum Lam. - H bienn - Stenomedit. - garigues
Echium vulgare L. subsp. *vulgare* - H bienn - Stenomedit. - uncultivated lands
Echium plantagineum L. - T scap - Eurimedit. - uncultivated lands
Echium arenarium Guss. - H bienn - Stenomedit. – sandy soils
Echium parviflorum Moench - T scap - Stenomedit. – arid meadows
Symphytum bulbosum K.F. Schimp. - G rhiz - Eurasiat. – humid environments
 Beccarisi & al. 2006
Anchusa undulata subsp. *hybrida* (Ten.) Bég. - H scap - Stenomedit. - uncultivated lands
Anchusa azurea Mill. - H scap - Eurimedit. - uncultivated lands
Lycopsis arvensis L. – T scap – Eurasiat. - uncultivated lands
Myosotis arvensis (L.) Hill subsp. *arvensis* - T scap - Eurasiat. - uncultivated lands
Myosotis ramosissima Rochel ex Schult. subsp. *ramosissima* - T scap - Eurasiat. - garigues
Borago officinalis L. - T scap - Eurimedit. - ruderal environments
Cynoglossum creticum Mill. - H bienn - Eurimedit. - meadows
Cynoglossum cheirifolium L. subsp. *cheirifolium* - H bienn - Eurimedit. - ruderal environments, arid meadows

VERBENACEAE

- Vitex agnus-castus* L. - P caesp - Stenomedit. - humid environments
 Marchiori & al. 1998a
Verbena officinalis L. - H scap - Eurasiat. - ruderal environments

Verbena supina L. - T scap - Stenomedit. - humid environments

Beccarisi & al. 2006

Phyla nodiflora (L.) Greene (*Lippia nodiflora* (L.) Michx.) - H rept - Wide distribution - humid environments

Phyla canescens (Kunth) Greene (*Lippia canescens* kunth) - Ch suffr - Exotic - arid uncultivated lands

Lippia triphylla (L'Her.) O. Kuntze - P caesp - Exotic - humid environments

CALLITRICHACEAE

Callitriche stagnalis Scop. - I rad - Boreal - stagnant waters

Callitriche brutia Petagna - I rad - Atl. - stagnant waters

Beccarisi & al. 2006

LABIATAE

Ajuga genevensis L. - H scap - Eurasiat. - humid environments

Ajuga iva (L.) Schreb. subsp. *iva* - Ch suffr - Stenomedit. - arid uncultivated lands

Ajuga chamaepitys (L.) Schreb. subsp. *chamaepitys* - T scap - Eurimedit. - arid uncultivated lands

Teucrium scordium subsp. *scordioides* (Schreb.) Arcang. - H scap - Eurasiat. - humid environments

Teucrium chamaedrys L. subsp. *chamaedrys* - Ch suffr - Eurimedit. - uncultivated lands

Teucrium flavum L. subsp. *flavum* - Ch frutt - Stenomedit. - garigues, maquis

Teucrium capitatum L. subsp. *capitatum* - Ch suffr - Stenomedit. - garigues

Scutellaria columnae All. - H scap - Medit.-Mont. - woods

Prasium majus L. - Ch frutt - Stenomedit. - garigues, cliffs

Marrubium vulgare L. - H scap - Eurasiat. - ruderal environments

Sideritis romana L. subsp. *romana* - T scap - Stenomedit. - arid stone meadows

Phlomis herba-venti L. subsp. *herba-venti* - H scap - Stenomedit. - garigues

Phlomis frutticosa L. - NP - Stenomedit. - maquis

Lamium maculatum L. - H scap - Eurasiat. - humid uncultivated lands

Lamium bifidum Cirillo subsp. *bifidum* - T scap - Stenomedit. - humid uncultivated lands

Lamium purpureum L. - T scap - Eurasiat. - uncultivated lands

Lamium amplexicaule L. - T scap - Eurasiat. - ruderal environments

Ballota pseudodictamnus (L.) Bentham - Ch frutt - Stenomedit. - dry stone walls

Ballota nigra L. subsp. *uncinata* (Fiori & Bég.) Patzak - H scap - Stenomedit. - ruderal environments

Stachys germanica L. subsp. *germanica* - H scap - Eurimedit. - garigues

Stachys germanica subsp. *salviifolia* (Ten.) Gams - H scap - Stenomedit. - garigues

Stachys maritima Gouan - H scap - Stenomedit. - sandy soils

Mele & al. 2004

Stachys arvensis (L.) L. - T scap - Eurasiat. - fields, cultures

Prunella laciniata (L.) L. - H scap - Eurimedit. - garigues

Prunella vulgaris L. subsp. *vulgaris* - H scap - Boreal - meadows

Melissa officinalis subsp. *altissima* (Sm.) Arcang. - H scap - Stenomedit. - humid environments

- Satureja cuneifolia* Ten. - Ch frutt - Stenomedit. - garigues
Micromeria microphylla (Durv.) Benth. - Ch suffr - Endem. - garigues, cliffs
Micromeria nervosa (Desf.) Benth. - Ch suffr - Stenomedit. - garigues, cliffs
Micromeria graeca (L.) Benth. ex Rchb. subsp. *graeca* - Ch suffr - Stenomedit. - garigues, cliffs
Micromeria canescens (Guss.) Benth. - Ch suffr - Endem. - maquis
Calamintha nepeta (L.) Savi subsp. *nepeta* - H scap - Medit.-Mont. - ruderal environments
Acinos suaveolens (Sm.) Loudon - Ch suffr - Eurasiat. - meadows
Clinopodium vulgare L. - H scap - Boreal - woods
Origanum vulgare subsp. *viridulum* (Martin-Donos) Nyman - H scap - Stenomedit. - garigues
Thymus capitatus (L.) Hoffmanns. & Link - Ch frutt - Stenomedit. - garigues
Thymus striatus Vahl - Ch rept - Eurasiat. - garigues
Thymus spinulosus Ten. - Ch rept - Endem. - garigues
Lycopus europaeus L. subsp. *europaeus* - H scap - Eurasiat. - humid environments
Mentha pulegium L. subsp. *pulegium* - H scap - Eurimedit. - humid uncultivated lands
Mentha arvensis L. - H scap - Boreal - meadows
Mentha aquatica L. subsp. *aquatica* - H scap - Eurasiat. - marsh
Mentha suaveolens Ehrh. - H scap - Eurimedit. - marsh
Mentha longifolia (L.) Huds. - H scap - Eurasiat. - humid environments
Mentha microphylla Koch - H scap - Medit.-Mont. - uncultivated lands
Mentha spicata L. - H scap - Eurimedit. - uncultivated lands
Mentha × *piperita* L. - H scap - Eurasiat. - cultivated rarely subspontaneous
Rosmarinus officinalis L. - NP - Stenomedit. - maquis
Salvia officinalis L. - Ch suffr - Medit.-Mont. - maquis
Salvia fruticosa Mill. - P caesp - Medit.-Mont. - maquis
Salvia haematodes L. - H scap - Eurimedit. - humid environments
Salvia virgata Jacq. - H scap - Eurasiat. - arid uncultivated lands
Salvia verbenaca L. - H scap - Eurasiat. - ruderal environments, uncultivated lands
Salvia viridis L. - T scap - Stenomedit. - uncultivated lands

SOLANACEAE

- Hyoscyamus albus* L. - T scap - Eurimedit. - walls, ruderal environments
Physalis alkekengi L. - H scap - Eurasiat. - cultivate rarely subspontaneous
Salpichroa origanifolia (Lam.) Baillon - Ch frutt - Exotic - sandy uncultivated lands
Solanum nigrum L. - T scap - Wide distribution - ruderal environments
Solanum villosum subsp. *alatum* (Moench) Edmonds - T scap - Eurimedit. - ruderal environments
Solanum elaeagnifolium Cav. - H scap - Exotic - adventive, ruderal environments
Solanum sodomaeum L. - NP - Exotic - sandy uncultivated lands
Solanum rostratum Dunal - T scap - Exotic - fields
Mandragora autumnalis Bertol. - H ros - Stenomedit. - dry stone walls, uncultivated lands
Datura stramonium L. subsp. *stramonium* - T scap - Exotic - ruderal environments
Datura innoxia Mill. - T scap - Exotic - adventive, ruderal environments
Nicotiana glauca Graham - NP - Exotic - naturalized, ruderal environments

SCROPHULARIACEAE

- Verbascum samniticum* Ten. - H bienn - Medit.-Mont. – arid pastures
Verbascum niveum Ten. subsp. *niveum* - H bienn - Endem. – arid meadows
Verbascum macrurum Ten. - H bienn - Medit.-Mont. - garigues
Verbascum thapsus L. subsp. *thapsus* - H bienn - Eurasiat. - garigues
Verbascum sinuatum L. - H bienn - Eurimedit. - uncultivated lands
Verbascum pulverulentum Vill. - H bienn - Eurasiat. - uncultivated lands
Verbascum blattaria L. - H bienn - Eurasiat. - ruderal environments
Scrophularia peregrina L. - T scap - Stenomedit. – shady environments
Scrophularia umbrosa Dumort. subsp. *umbrosa* - H scap - Eurasiat. – humid environments
 Beccarisi & al. 2006
Scrophularia lucida L. - H bienn - Medit.-Mont. - cliffs
Antirrhinum siculum Mill.- Ch frutt - Endem. - cliffs
Antirrhinum majus L. subsp. *majus* - Ch frutt - Stenomedit. – walls, cliffs
Misopates orontium (L.) Raf. subsp. *orontium* - T scap - Eurimedit. - uncultivated lands
Linaria reflexa (L.) Desf. - T rept - Stenomedit. – arid pastures
Linaria triphylla (L.) Miller - T scap - Stenomedit. - arid pastures
Linaria chalepensis (L.) Mill. - T scap - Stenomedit. - arid pastures
Linaria pelisseriana (L.) Mill. - T scap - Atl. - clearing
Linaria vulgaris Mill. subsp. *vulgaris* - H scap - Eurasiat. - ruderal environments
Linaria arvensis (L.) Desf. - T scap - Atl. - fields
Linaria simplex (Willd.) DC. - T scap - Eurimedit. – arid pastures
Linaria micrantha (Cav.) Hoffmanns. & Link - T scap - Stenomedit. - uncultivated lands
Cymbalaria muralis Gaertn., B. Mey. & Scherb subsp. *muralis* - T scap - Eurimedit. - walls
Kickxia cirrhosa (L.) Fritsch – T scap – Stenomedit. - uncultivated lands
 Beccarisi & al. 2006
Kickxia commutata (Bernh. ex Rchb.) Fritsch subsp. *commutata* - H rept - Stenomedit. -
 uncultivated lands
Kickxia elatine (L.) Dumort. subsp. *elatine* - T scap - Eurimedit. - uncultivated lands
Kickxia spuria (L.) Dumort. - T scap - Eurasiat. - uncultivated lands
Veronica arvensis L. - T scap - Wide distribution - uncultivated lands
Veronica polita Fr. - T scap - Eurasiat. – cultivated areas
Veronica persica Poir. - T scap - Exotic - cultivated areas
Veronica hederifolia subsp. *triloba* (Opiz) Celak. - T scap - Eurimedit. - ruderal environ-
 ments
Veronica hederifolia L. - T scap - Eurasiat. - arid pastures
Veronica cymbalaria Bodard - T scap - Eurimedit. - ruderal environments
Veronica anagallis-aquatica L. subsp. *anagallis-aquatica* - H scap - Wide distribution -
 humid environments
Veronica catenata Pennell - T scap - Boreal - humid environments
 Beccarisi & al. 2006
Veronica anagalloides Guss. - T scap - Eurimedit. - humid environments
Veronica beccabunga L. - H rept - Eurasiat. - humid environments
 Beccarisi & al. 2005

- Odontites luteus* (L.) Clairv. - T scap - Eurimedit. - garigues
Parentucellia viscosa (L.) Caruel - T scap - Atl. - garigues, arid pastures
Parentucellia latifolia (L.) Caruel - T scap - Eurimedit. - arid pastures
Bartsia trixago L. - T scap - Eurimedit. - uncultivated lands

OROBANCHACEAE

- Orobanche ramosa* L. subsp. *ramosa* - T par - Eurasiat. - uncultivated lands on *Vicia* and *Medicago*
Orobanche lavandulacea Rchb. - T par - Stenomedit. - ruderal environments on *Bituminaria bituminosa*
Orobanche purpurea Jacq. - T par - Eurasiat. - fields on *Vicia faba*
Orobanche cernua L. in Loevl. - T par - Eurasiat. - uncultivated lands on *Galactites elegans*
Orobanche crenata Forssk. - T par - Eurimedit. - fields on *Vicia faba* and *Geranium*
Orobanche alba Stephan ex Willd. - T par - Eurasiat. - sandy soils on *Plantago coronopus*
Orobanche amethystea Thuill. subsp. *amethystea* - T par - Atl. - ruderal environments on *Trifolium* sp. pl., *Plantago* sp. pl. and *Daucus* sp. pl.
Orobanche minor Sm. - T par - Eurasiat. - ruderal environments on *Lotus* sp. pl., *Plantago coronopus*
Orobanche pubescens d'Urv. - T par - Eurasiat. - ruderal environments, maquis on *Cistus salvifolius*, *Dorycnium hirsutum*
Orobanche hederæ Duby - T par - Eurimedit. - shady environments on *Hedera helix*
Orobanche lutea Baumg. - T par - Eurasiat. - uncultivated lands on *Plantago lanceolata*
Orobanche rapum-genistæ Thuill. subsp. *rapum-genistæ* - T par - Atl. - fields on *Vicia faba*
Orobanche sanguinea C. Presl - T par - Stenomedit. - sandy soils and maquis on *Lotus* and *Rubus ulmifolius*

ACANTHACEAE

- Acanthus mollis* L. subsp. *mollis* - H scap - Stenomedit. - ruderal environments
Acanthus spinosus L. - H scap - Stenomedit. - arid pastures

MYOPORACEAE

- Myoporum laetum* Forst. - T scap - Exotic - adventive, hedges, reforestation

LENTIBULARIACEAE

- Utricularia australis* L. - I nat - Eurasiat. - stagnant waters
 Beccarisi & al. 2006

PLANTAGINACEAE

- Plantago major* L. subsp. *major* - H ros - Wide distribution - humid environments
Plantago major subsp. *pleiosperma* Pilg. - H ros - Wide distribution - humid environments
Plantago coronopus L. subsp. *coronopus* - H bienn - Eurimedit. - sandy soils
Plantago weldenii Rchb. - H bienn - Eurimedit. - halophilus humid environments
Plantago macrorrhiza Poir. - H ros - Stenomedit. - coastal environments

- Plantago crassifolia* Forssk. - H ros - Stenomedit. - halophilus humid environments
Plantago serraria L. - H ros - Stenomedit. - arid meadows
Plantago holosteum Scop. - H ros - Eurasiat. - cliffs
Plantago lanceolata L. - H ros - Eurasiat. - arid meadows
Plantago lagopus L. - T scap - Stenomedit. - uncultivated lands
Plantago bellardii All. - T scap - Stenomedit. - garigues, sandy soils
Plantago albicans L. - Ch suffr - Stenomedit. - sandy soils
Plantago afra L. subsp. *afra* - T scap - Stenomedit. - ruderal environments

CAPRIFOLIACEAE

- Sambucus ebulus* L. - G rhiz - Eurimedit. - humid environments
Sambucus nigra L. - P caesp - Eurasiat. - humid environments
Viburnum tinus L. subsp. *tinus* - P caesp - Stenomedit. - *Quercus ilex* woods
Lonicera implexa Aiton subsp. *implexa* - P lian - Stenomedit. - maquis, dunes

VALERIANACEAE

- Valerianella discoidea* (L.) Loisel. - T scap - Stenomedit. - arid pastures
Valerianella pumila (L.) DC. - T scap - Stenomedit. - arid meadows
Valerianella eriocarpa Desv. - T scap - Stenomedit. - arid meadows
Valerianella muricata (Stev. ex M. Bieb.) J.W. Loudon - T scap - Stenomedit. - arid meadows
Valerianella microcarpa Loisel. - T scap - Stenomedit. - arid meadows
Valerianella dentata (L.) Pollich - T scap - Atl. - arid meadows
Valerianella echinata (L.) DC. - T scap - Stenomedit. - arid meadows
Fedia graciliflora Fisch. & C.A.Mey. - T scap - Stenomedit. - arid uncultivated lands
Centranthus ruber (L.) DC. subsp. *ruber* - Ch suffr - Stenomedit. - cliffs
Centranthus calcitrapae (L.) Dufur. subsp. *calcitrapae* - T scap - Stenomedit. - cliffs
Centranthus macrosiphon Boiss. - T scap - Exotic - ruderal environments
 Marchiori & al. 1993

DIPSACACEAE

- Dipsacus fullonum* L. - H bienn - Eurimedit. - humid uncultivated lands
Knautia arvensis (L.) Coult. - H scap - Eurasiat. - uncultivated lands
Knautia integrifolia (L.) Bertol. subsp. *integrifolia* - T scap - Eurimedit. - uncultivated lands
Scabiosa columbaria L. - T scap - Eurasiat. - uncultivated lands
Sixalix atropurpurea subsp. *grandiflora* (Scop.) Soldano & F. Conti - H bienn - Stenomedit. - uncultivated lands, sand along the coast

CAMPANULACEAE

- Legousia speculum-veneris* (L.) Chaix - T scap - Eurimedit. - fields
Legousia falcata (Ten.) Janch. - T scap - Stenomedit. - fields
Legousia hybrida (L.) Delarbre - T scap - Atl. - fields
Campanula rapunculoides L. - H bienn - Eurasiat. - arid pastures
Campanula versicolor Andrews - H scap - Orophilous - cliffs

Campanula erinus L. - T scap - Stenomedit. – cliffs, ruderal environments
Asyneuma limonifolium (L.) Janch. subsp. *limonifolium* - H scap - Amphiadriatic - garigues
Solenopsis laurentia (L.) C. Presl. (*Laurentia gasparrinii* (Tineo) Strobl.) - T scap -
 Stenomedit. – humid environments
 Beccarisi & al. 2006

COMPOSITAE

Eupatorium cannabinum L. subsp. *cannabinum* - H scap - Eurasiat. - humid environments
Tripolium pannonicum (Jacq.) Dobrocz. (*Aster tripolium* L.) - H bienn - Eurasiat. – halo-
 philous humid environments
Symphytotrichum squamatum (Spreng.) G.L. Nesom (*Aster squamatus* (Spreng.) Hieron) -
 T scap - Exotic - ruderal environments
Erigeron bonariensis L. - T scap - Exotic - uncultivated lands
Erigeron canadensis L. - T scap - Wide distribution - uncultivated lands
Erigeron annuus (L.) Desf. - T scap - Exotic – adventive, uncultivated lands
Bellis annua L. subsp. *annua* - T scap - Stenomedit. - meadows
Bellis perennis L. - H ros - Eurasiat. - meadows
Bellis sylvestris Cirillo - H ros - Stenomedit. - garigues
Filago pygmaea L. (*Evax pygmaea* (L.) Brot.) - T rept - Stenomedit. – stamped environ-
 ments
Filago vulgaris Lam. - T scap - Eurasiat. - meadows
Filago eriocephala Guss. - T scap - Stenomedit. - meadows
Filago pyramidata L. - T scap - Eurimedit. - meadows
Filago gallica L. - T scap - Eurimedit. - meadows
Laphangium luteoalbum (L.) Tzvelev (*Gnaphalium luteo-album* L.) - T scap - Wide dis-
 tribution - cliffs
Phagnalon rupestre (L.) DC. s.l. - Ch suffr - Eurimedit. - cliffs
Helichrysum italicum (Roth) G. Don subsp. *italicum* - Ch suffr - Eurasiat. - garigues
Limbarda crithmoides (L.) Dumort. subsp. *crithmoides* - Ch suffr - Atl. – saline humid
 environments
Dittrichia graveolens (L.) Greuter - T scap - Eurimedit. – uncultivated lands, ruderal envi-
 ronments
Dittrichia viscosa (L.) Greuter - H scap - Eurimedit. - ruderal environments
Inula conyzae (Griess.) Meikle - H bienn - Eurasiat. - uncultivated lands
Pulicaria sicula (L.) Moris - T scap - Stenomedit. - humid environments
Pulicaria vulgaris Gaertn. - T scap - Eurasiat. - uncultivated lands
 Beccarisi & al. 2006
Pulicaria dysenterica (L.) Bernh. - H scap - Eurimedit. - humid environments
Pulicaria odora (L.) Rchb. - H scap - Eurimedit. – maquis, garigues
Pallenis spinosa (L.) Cass. subsp. *spinosa* - T scap - Eurimedit. - uncultivated lands
Bidens tripartita L. - T scap - Eurasiat. - humid environments
Bidens bipinnata L. - T scap – Exotic – adventive, humid environments
Helianthus tuberosus L. - G bulb - Exotic – adventive, ruderal environments
Ambrosia maritima L. – T scap – Eurimedit.- sandy soils
Xanthium spinosum L. - T scap - Exotic – sandy soils, ruderal environments

- Xanthium strumarium* L. subsp. *strumarium* - T scap - Wide distribution - ruderal environments
Xanthium orientale subsp. *italicum* (Moretti) Greuter - T scap - Eurasiat. - ruderal environments
- Galinsoga ciliata* (Rafin.) Blake - T scap – Exotic - uncultivated lands
 Marchiori & al. 1993
- Anthemis hydruntina* Groves - Ch suffr - Endem. – garigues
 Marchiori & al. 1998 a
- Anthemis tomentosa* L. - T scap - Stenomedit. – sandy lands
Anthemis arvensis L. subsp. *arvensis* - T scap - Stenomedit. - fields
Anthemis arvensis subsp. *incrassata* (Loisel.) Nyman - T scap - Stenomedit. - fields
Anthemis cotula L. - T scap - Eurimedit. - fields
Cladanthus mixtus (L.) Chevall. - T scap - Stenomedit. - fields
Cota segetalis (Ten.) Holub - T scap - Eurasiat. - fields
Anacyclus clavatus (Desf.) Pers. - T scap - Stenomedit. - uncultivated lands
Achillea ligustica All. - H scap - Stenomedit. - meadows
Otanthus maritimus (L.) Hoffmanns. & Link subsp. *maritimus* - Ch suffr - Atl. - dunes
Matricaria chamomilla L. - T scap - Wide distribution - uncultivated lands
Glebionis segetum (L.) Fourr. - T scap - Stenomedit. - fields
Glebionis coronaria (L.) Spach - T scap - Stenomedit. - ruderal environments
Coleostephus myconis (L.) Cass. ex Rchb. f. - T scap - Stenomedit. - fields
Leucanthemum vulgare Lam. subsp. *vulgare* - H scap - Eurasiat. - meadows
Artemisia verlotiorum Lamotte - H scap - Exotic - uncultivated lands
 Beccarisi & al. 2005
- Artemisia coerulescens* L. - Ch suffr - Eurimedit. – halophilous humid environments
Tussilago farfara L. - G rhiz - Eurasiat. - clay soils
Senecio gibbosus subsp. *cineraria* (DC.) Peruzzi, N.G. Passal. & Soldano - Ch suffr –
 Exotic – adventive, cliffs, ruderal environments
Senecio mikanioides Otto - Ch frut - Exotic - Adventive, ruderal environments
Senecio aquaticus Hill - H bienn - Eurasiat. - humid environments
Senecio leucanthemifolius Poir. subsp. *leucanthemifolius* - T scap - Stenomedit. - ruderal environments
- Senecio vulgaris* L. - T scap - Eurimedit. - ruderal environments
Calendula arvensis L. - T scap - Eurimedit. – fields, uncultivated lands
Carduus nutans L. subsp. *nutans* - H bienn - Eurasiat. - meadows
Carduus nutans subsp. *macrocephalus* (Desf.) Nyman - H bienn - Stenomedit. - meadows
Carduus chrysacanthus Ten. subsp. *chrysacanthus* - H scap - Endem. - meadows
Carduus corymbosus Ten. - T scap - Endem. - garigues
Carduus pycnocephalus L. subsp. *pycnocephalus* - H bienn - Eurimedit. - ruderal environments
Cirsium vulgare (Savi) Ten. - H bienn - Eurasiat. - uncultivated lands
Cirsium arvense (L.) Scop. - G rad - Eurasiat. - cultivated lands
Cirsium creticum subsp. *triumfetti* (Lacaita) Werner - H bienn - Stenomedit. - humid environments
- Cynara cardunculus* subsp. *scolymus* (L.) Hayek - H scap - Stenomedit. - garigues
Silybum marianum (L.) Gaertn. - H bienn - Eurimedit. - ruderal environments
Tyrimnus leucographus (L.) Cass. - T scap - Stenomedit. – arid meadows

- Galactites elegans* (All.) Soldano - H bienn - Stenomedit. - ruderal environments
Onopordum illyricum subsp. *horridum* (Viv.) Franco - H bienn - Medit.-Mont. – garigues
Onopordum illyricum L. subsp. *illyricum* - H bienn - Stenomedit. - garigues
Onopordum tauricum Willd. - H bienn - Eurasiat. - garigues
Jurinea mollis (L.) Rchb. subsp. *mollis* - H scap - Eurasiat. - meadows
Crupina crupinastrum (Moris) Vis. - T scap - Stenomedit. - meadows
Mantisalca duriaei (Spach) Briq. & Cavill. - T scap - Stenomedit. - meadows
Centaurea leucadea Lacaita - Ch suffr - Endem. - cliffs
Centaurea deusta Ten. subsp. *deusta* - H bienn - Endem. – cliffs, meadows
Centaurea deusta subsp. *divaricata* (Guss.) Matthas & Pign.- H bienn - Endem. - cliffs, meadows
Centaurea jacea subsp. *gaudini* (Boiss. & Reut.) Grelli - H scap - Eurasiat. – humid uncultivated lands
Centaurea sphaerocephala L. - H scap - Stenomedit. – sandy soils
Centaurea napifolia L. - T scap - Stenomedit. - uncultivated lands
Centaurea calcitrapa L. - H bienn - Eurimedit. - ruderal environments
Centaurea japygica (Lacaita) Brullo - Ch suffr - Endem. - cliffs
Centaurea melitensis L. - T scap - Stenomedit. - uncultivated lands
Centaurea solstitialis L. subsp. *solstitialis* - H bienn - Stenomedit. - uncultivated lands
Centaurea nicaeensis All. - H bienn - Stenomedit. - uncultivated lands
Centaurea nobilis (Groves) Brullo - Ch suffr - Endem. – cliffs
 Medagli & al. 1988
Centaurea tenacissima (Groves) Brullo - H scap - Endem. - garigues
Carthamus caeruleus L. - H scap - Eurasiat. - uncultivated lands
Carthamus lanatus L. subsp. *lanatus* - T scap - Eurimedit. – arid meadows
Cnicus benedictus L. - T scap - Stenomedit. - uncultivated lands
Cardopatum corymbosum (L.) Pers. - H scap - Medit.-Mont. - clay soils
Carlina corymbosa L. - H scap - Stenomedit. - arid meadows
Carlina lanata L. - T scap - Stenomedit. - arid meadows
Atractylis cancellata L. - T scap - Medit.-Mont. - arid meadows
Atractylis gummifera L. - H ros - Medit.-Mont. - arid meadows
Echinops spinosissimus Turra - Ch suffr - Stenomedit. – garigues
 Bianco & Medagli 1983-1984a
Scolymus hispanicus L. - H bienn - Eurimedit. – sandy uncultivated lands
Cichorium intybus L. - H scap - Eurasiat. - uncultivated lands
Lapsana communis L. subsp. *communis* - T scap - Eurasiat. - uncultivated lands
Tolpis umbellata Bertol. - T scap - Stenomedit. – meadows, garigues
Tolpis virgata (Desf.) Bertol. subsp. *virgata* - H scap - Stenomedit. - meadows, garigues
Hyoseris scabra L. - T ros - Stenomedit. - meadows
Rhagadiolus stellatus (L.) Gaertn. - T scap - Eurimedit. – meadows, back dunes areas
Hedypnois rhagadioloides (L.) F.W. Schmidt - T scap - Stenomedit. – sandy meadows
Hedypnois cretica (L.) Dum. Cours. - T scap - Stenomedit. - meadows
Tragopogon dubius Scop. - H bienn - Eurasiat. - meadows
Tragopogon porrifolius L. subsp. *porrifolius* - H bienn - Eurimedit. – meadows, uncultivated lands
Hypochaeris radicata L. - H ros - Eurasiat. - meadows, dunes

- Hypochaeris achyrophorus* L. - T scap - Stenomedit. - meadows
Scorzonera hirsuta L. - H scap - Eurimedit. - arid pastures
Scorzonera villosa subsp. *columnae* (Guss.) Nyman - G rhiz - Amphiadriatic - meadows
Urospermum picroides (L.) Scop. ex F.W. Schmidt - T scap - Eurimedit. - meadows
Urospermum dalechampii (L.) F.W. Schmidt - H scap - Eurimedit. - meadows
Leontodon crispus Vill. subsp. *crispus* - H ros - Eurasiat. - uncultivated lands
Leontodon apulus (Fiori) Brullo - H ros - Endem. - cliffs
Leontodon tuberosus L. - H ros - Stenomedit. - arid meadows
Picris hieracioides subsp. *spinulosa* (Bertol. ex Guss.) Arcang. - H scap - Eurasiat. - uncultivated lands, ruderal environments
Helminthotheca echioides (L.) Holub - T scap - Eurimedit. - ruderal environments
Andryala integrifolia L. - T scap - Eurimedit. - meadows
Chondrilla juncea L. - H scap - Eurasiat. - ruderal environments
Taraxacum megalorrhizon (Forssk.) Hand.-Mazz. - H ros - Eurimedit. - meadows
Taraxacum officinale (group) - H ros - Boreal - meadows
Sonchus maritimus L. subsp. *maritimus* - H ros - Eurimedit. - halophilous humid environments
Sonchus asper subsp. *glaucescens* (Jord.) Ball - T scap - Eurasiat. - ruderal environments, uncultivated lands
Sonchus oleraceus L. - T scap - Eurasiat. - ruderal environments
Sonchus tenerrimus L. - T scap - Stenomedit. - ruderal environments
Sonchus bulbosus (L.) N. Kilian & Greuter subsp. *bulbosus* (*Aetheorrhiza bulbosa* (L.) Cass.) - G bulb - Stenomedit. - sandy soils
Lactuca viminea (L.) J. & C. Presl subsp. *viminea* - H bienn - Eurasiat. - uncultivated lands
Lactuca serriola L. - H bienn - Eurasiat. - uncultivated lands
Lactuca saligna L. - T scap - Eurimedit. - uncultivated lands
Lactuca virosa L. - T scap - Atl. - uncultivated lands
Reichardia picroides (L.) Roth - H scap - Stenomedit. - ruderal environments, meadows, dunes
Crepis rubra L. - T scap - Stenomedit. - ruderal environments, uncultivated lands
Crepis foetida L. - T scap - Eurimedit. - uncultivated lands
Crepis sancta (L.) Bab. subsp. *sancta* - T scap - Eurimedit. - uncultivated lands
Crepis zacintha (L.) Loisel. - T scap - Stenomedit. - arid meadows
Crepis neglecta L. - T scap - Eurimedit. - ruderal environments, uncultivated lands
Crepis corymbosa Ten. - T scap - Eurimedit. - ruderal environments, uncultivated lands
Crepis brulla Greuter - T scap - Endem. - uncultivated lands
Crepis vesicaria L. subsp. *vesicaria* - T scap - Atl. - ruderal environments, uncultivated lands
Crepis vesicaria subsp. *taraxacifolia* (Thuill.) Thell. - T scap - Atl. - meadows
Crepis setosa Haller f. - T scap - Eurimedit. - meadows
Crepis bursifolia L. - H scap - Endem. - ruderal environments
Hieracium bauhini Schult. - H scap - Eurasiat. - humid environments
Aegialophila pumila (L.) Boiss. - Ch ros - Stenomedit. - rocks along the coast
 Tornadore & al. 1998

ALISMATACEAE

- Alisma lanceolatum* With. - I rad - Wide distribution - marshes
 Beccarisi & al. 2005

Alisma plantago-aquatica L. - I rad - Wide distribution - marshes

Baldellia ranunculoides (L.) Parl. - I rad - Atl. – marshes

Beccarisi & al. 2006

JUNCAGINACEAE

Triglochin bulbosum subsp. *barrelieri* (Loisel.) Rouy - G bulb - Stenomedit. - halophitic humid environments

Triglochin laxiflorum Guss. - G bulb - Stenomedit. - halophitic humid environments

POTAMOGETONACEAE

Potamogeton coloratus Hornem. - I rad - Wide distribution – running waters

Beccarisi & al. 2006

Potamogeton lucens L. - I rad - Boreal - running waters

Potamogeton crispus L. - I rad - Wide distribution - running waters

Beccarisi & al. 2006

Potamogeton pectinatus L. - I rad - Wide distribution - running waters

Groenlandsia densa (L.) Fourr. - I rad - Eurasiat. - running waters

Ruppia maritima L. - I rad - Wide distribution - lagoons

Ruppia cirrhosa (Petagna) Grande - I rad - Wide distribution - lagoons

ZOSTERACEAE

Posidonia oceanica (L.) Delile - I rad - Stenomedit. – sandy sea depths

Cymodocea nodosa (Ucria) Asch. - I rad - Atl. - sandy sea depths

Zostera noltii Hornem. - I rad - Atl.- lagoons

ZANNICHELLIACEAE

Athenia filiformis Petit subsp. *filiformis* - I rad - Stenomedit. - salt ponds

Beccarisi & al. 2004a

Zannichellia palustris L. - I rad - Wide distribution – stagnant waters

LILIACEAE

Asphodelus fistulosus L. - H scap - Wide distribution - ruderal environments, roadside soils

Asphodelus ramosus L. subsp. *ramosus* - G rhiz - Stenomedit. - pastures

Colchicum cupanii Guss. - G bulb - Stenomedit. - meadows

Colchicum lusitanum Brot. - G bulb - Medit.-Mont. – meadows

Caforio & Marchiori 2006

Gagea villosa (M. Bieb.) Sweet - G bulb - Eurasiat. - maquis

Gagea granatellii (Parl.) Parl. - G bulb - Stenomedit. - meadows

Gagea foliosa (J. & C. Presl) Schult. & Schult. f. - T scap - Orophilous - Stenomedit. - meadows

Prospero autumnale (L.) Speta subsp. *autumnale* - G bulb - Eurimedit. – arid pastures

Charybdis maritima (L.) Speta (*Urginea maritima* (L.) Baker) - G bulb - Stenomedit. - garigues

Ornithogalum comosum L. - G bulb - Medit.-Mont. - meadows

Ornithogalum umbellatum L. - G bulb - Eurimedit. - uncultivated lands

Ornithogalum divergens Boreau - G bulb - Eurasiat. - meadows

- Ornithogalum gussonei* Ten. - G bulb - Stenomedit. - meadows
Ornithogalum exscapum Ten. - G bulb - Eurasiat. – arid uncultivated lands
Ornithogalum refractum var. *adalgisae* (Groves) Groves - G bulb - Endem. - uncultivated lands, olive yards
 Tornadore & Marcucci 1993
Melomphis arabica (L.) Raf. - G bulb - Exotic - uncultivated lands
Loncomelos narbonensis (Torn. in L.) Raf. - G bulb - Eurimedit. - meadows
Loncomelos pyrenaicus (L.) Hrouda ex J. Holub subsp. *pyrenaicus* - G bulb - Eurimedit. - meadows
Bellevalia romana (L.) Sweet - G bulb - Eurimedit. - meadows
Muscari parviflorum Desf. - G bulb - Stenomedit. - meadows
 Mele & al. 2002
Muscari commutatum Guss. - G bulb - Stenomedit. - uncultivated lands, meadows
Muscari neglectum Guss. ex Ten. - G bulb - Eurimedit. - meadows
Muscari comosum (L.) Mill. (*Leopoldia comosa* (L.) Parl.) - G bulb - Eurimedit. - uncultivated lands, meadows
Allium sphaerocephalon L. - G bulb - Eurasiat. - uncultivated lands
Allium atroviolaceum Boiss. - G bulb - Stenomedit. - ruderal environments
Allium ampeloprasum L. - G bulb - Eurimedit. - ruderal environments
Allium commutatum Guss. - G bulb - Stenomedit. – rocks along the coast
 D'Emerico & al. 1987
Allium amethystinum Tausch - G bulb - Medit.-Mont. - meadows
Allium sardoum Moris - G bulb - Stenomedit. - meadows
Allium tenuiflorum Ten. - G bulb - Stenomedit. – meadows, rocks
Allium paniculatum L. subsp. *paniculatum* - G bulb - Eurasiat. - meadows
Allium nigrum L. - G bulb - Stenomedit. - uncultivated lands
Allium neapolitanum Cirillo - G bulb - Stenomedit. - uncultivated lands, ruderal environments
Allium roseum L. - G bulb - Stenomedit. – meadows
Allium subhirsutum L. - G bulb - Stenomedit. – meadows, garigues
Allium trifoliatum Cirillo - G bulb - Stenomedit. - meadows, garigues
Allium triquetrum L. - G bulb - Stenomedit. – humid meadows
Allium chamaemoly L. subsp. *chamaemoly* - G bulb - Stenomedit. - meadows
Asparagus maritimus Miller - G rhiz - Eurasiat. - humid environments
Asparagus acutifolius L. - NP - Stenomedit. – garigues, woods
Ruscus aculeatus L. - Ch frutt - Eurimedit. - woods
Smilax aspera L. - NP - Wide distribution – maquis, woods

AGAVACEAE

- Agave americana* L. - P caesp - Exotic - ruderal environments

AMARYLLIDACEAE

- Pancratium maritimum* L. - G bulb - Stenomedit. - dunes
Narcissus serotinus L. - G bulb - Stenomedit. - meadows
Narcissus tazetta L. subsp. *tazetta* - G bulb - Stenomedit. – humid meadows
Sternbergia lutea (L.) Ker Gawl. ex Spreng. - G bulb - Exotic - meadows

DIOSCOREACEAE

Tamus communis L. - G rad - Eurimedit. – hedges, woods

IRIDACEAE

Hermodactylus tuberosus (L.) Mill. - G rhiz - Stenomedit. – garigues, maquis

Iris pseudopumila Tineo - G rhiz - Endem. - garigues

Iris germanica L. - G rhiz - Exotic - ruderal environments, uncultivated lands

Iris florentina L. - G rhiz - Exotic - ruderal environments, uncultivated lands

Iris revoluta Colasante - G rhiz - Endem. – meadows

Colasante 1977

Iris pseudacorus L. - G rhiz - Eurasiat. – humid environments

Iris collina Terr. - G rhiz - Medit.-Mont. - woods

Iris unguicularis Poiret - G bulb - Exotic - ruderal environments, uncultivated lands

Gynandrisis sisyrrinchium (L.) Parl. - G bulb - Stenomedit. – arid meadows along the coast

Romulea bulbocodium (L.) Sebast. & Mauri - G bulb - Stenomedit. - meadows

Romulea columnae Sebast. & Mauri - G bulb - Stenomedit. - meadows

Gladiolus italicus Mill. - G bulb - Eurimedit. – fields, uncultivated lands

Gladiolus communis subsp. *byzantinus* (Mill.) A.P. Ham. - G bulb - Stenomedit. - humid environments

Marchiori & al. 1999b

Crocus thomasi Ten. - G bulb - Endem. – arid meadows

Crocus biflorus Mill. - G bulb - Stenomedit. - garigues, maquis

JUNCACEAE

Juncus subulatus Forssk. - G rhiz - Stenomedit. – humid environments

Juncus bufonius L. - T caesp - Wide distribution - humid environments

Juncus ambiguus Guss. - T caesp - Wide distribution - humid environments

Juncus hybridus Brot. - T caesp - Atl. - humid environments

Juncus gerardii Loisel. - G rhiz - Boreal - humid environments

Juncus inflexus L. - H caesp - Eurasiat. - humid environments

Juncus acutus L. subsp. *acutus* - H caesp - Eurimedit. - humid environments

Juncus littoralis C. A. Mey. - H caesp - Stenomedit. - humid environments

Juncus maritimus Lam. - G rhiz - Wide distribution - humid environments

Juncus subnodulosus Schrank - G rhiz - Eurasiat. - humid environments

Juncus fontanesii J. Gay subsp. *fontanesii* - G rhiz - Wide distribution - humid environments

Beccarisi & al. 2006

Juncus articulatus L. - G rhiz - Boreal - humid environments

Juncus striatus Schousb. ex E. Mey. - G rhiz - Stenomedit. - humid environments

Juncus capitatus Weigel - T scap - Atl. - humid environments

Beccarisi & al. 2006

Luzula forsteri (Sm.) DC. - H caesp - Eurimedit. - humid environments

GRAMINEAE

Lamarckia aurea (L.) Moench - T scap - Stenomedit. - arid meadows

Cynosurus cristatus L. - H caesp - Eurasiat. - cane-brakes

- Cynosurus echinatus* L. - T scap - Eurimedit. - uncultivated lands
Cynosurus effusus Link - T scap - Stenomedit. - meadows
Briza maxima L. - T scap - Wide distribution – fields, uncultivated lands
Briza minor L. - T scap - Wide distribution - humid environments
Aeluropus litoralis (Gouan) Parl. - G rhiz - Stenomedit. – sandy coastal environments
Dactylis glomerata subsp. *hispanica* (Roth) Nyman - H caesp - Stenomedit. - uncultivated lands
Dactylis glomerata L. subsp. *glomerata* - H caesp - Eurasiat. – fields, ruderal environments
Poa annua L. - T caesp - Wide distribution - ruderal environments
Poa infirma Kunth - T caesp - Eurimedit. - ruderal environments
Poa compressa L. – H caesp - Wide distribution - ruderal environments
Poa bulbosa L. - H caesp - Eurasiat. – arid meadows
Poa trivialis L. - H caesp - Eurasiat. - meadows
Poa sylvicola Guss. - H caesp - Eurimedit. - woods
Poa pratensis L. - H caesp - Boreal – arid meadows
Vulpia geniculata (L.) Link - T caesp - Stenomedit. - garigues
Vulpia ligustica (All.) Link - T caesp - Stenomedit. - ruderal environments
Vulpia ciliata Dumort. - T caesp - Eurimedit. - arid meadows
Vulpia myuros (L.) C.C. Gmel. - T caesp - Wide distribution - arid meadows
Vulpia fasciculata (Forssk.) Fritsch - T caesp - Atl. – sandy soils
Festuca pratensis Hudson – H caesp – Eurasiat. - ruderal environments
Festuca arundinacea Schreb. subsp. *arundinacea* - H caesp - Eurasiat. - humid environments
Festuca arundinacea subsp. *fenas* (Lag.) Arcang. - H caesp - Eurimedit. - humid environments
Festuca circummediterranea Patzke - H caesp - Eurimedit. – garigues, arid meadows
Catapodium balearicum (Willk.) H. Scholz - T scap - Stenomedit. – garigues along the coast
Catapodium rigidum (L.) C.E. Hubb. ex Dony - T scap - Eurimedit. - ruderal environments
Catapodium hemipoa (Delile ex Spreng.) Lainz - T scap - Stenomedit. - arid meadows
Ampelodesmos mauritanicus (Poiret) T. Duran & Schinz - H caesp - Stenomedit - roadside soils
Melica ciliata L. subsp. *ciliata* - H caesp - Eurimedit. - uncultivated lands
Melica ciliata subsp. *magnolii* (Gren. & Godr.) Husn. - H caesp - Stenomedit. - arid meadows
Melica transsilvanica Schur subsp. *transsilvanica* - H caesp - Eurasiat. - arid meadows
Melica uniflora Retz. - H caesp - Eurasiat. - woods
Melica minuta L. - H caesp - Eurasiat. - ruderal environments
Melica arrecta Kuntze - H caesp - Stenomedit. – edge of woods
Glyceria notata Chevall. - G rhiz - Wide distribution - marshy environments
 Beccarisi & al. 2006
Puccinellia festuciformis (Host.) Parl. - H caesp - Stenomedit. - saline environments along the coast
Puccinellia convoluta (Hornem.) Hayek - H caesp - Stenomedit - saline environments along the coast
Trisetaria panicea (Lam.) Maire - T scap - Stenomedit. – arid meadows
Trisetaria aurea (Ten.) Pignatti - T scap - Stenomedit. – arid meadows
Trisetaria michelii (Savi) D. Heller - T scap - Stenomedit. – arid meadows
Sphenopus divaricatus (Gouan) Rchb. - T scap - Stenomedit. – arid meadows
Cutandia maritima (L.) Barbey - T scap - Stenomedit. – sandy soils, dunes
Lolium temulentum L. subsp. *temulentum* - T scap - Wide distribution - fields

- Lolium rigidum* Gaudin subsp. *rigidum* - T scap - Wide distribution – arid uncultivated lands
Lolium rigidum subsp. *lepturoides* (Boiss.) Sennen & Mauricio (*L. loliaceum* (Bory & Chaub.) Hand.-Mazz.) - T scap - Stenomedit. - uncultivated lands along the coast
Lolium multiflorum Lam. - T scap - Eurimedit. - meadows
Lolium perenne L. - H caesp - Boreal - ruderal environments, uncultivated lands
Bromus erectus Huds. subsp. *erectus* - H caesp - Eurasiat. - arid meadows
Bromus fasciculatus C. Presl - T scap - Stenomedit. – sandy soils
Bromus tectorum L. subsp. *tectorum* - T scap - Eurasiat. - arid uncultivated lands
Bromus sterilis L. - T scap - Eurimedit. - arid uncultivated lands
Bromus madritensis L. - T scap - Eurimedit. - ruderal environments
Bromus diandrus Roth subsp. *diandrus* - T scap - Wide distribution - ruderal environments
Bromus hordeaceus L. subsp. *hordeaceus* - T scap - Wide distribution - meadows
Bromus hordeaceus subsp. *thominei* (Hardouin) Braun-Blanq. - T scap - Eurimedit. - meadows
Bromus commutatus Schrad. - T scap - Eurasiat. - uncultivated lands
Brachypodium retusum (Pers.) P. Beauv. - H caesp - Stenomedit. - arid meadows
Brachypodium sylvaticum (Huds.) P. Beauv. subsp. *sylvaticum* - H caesp - Eurasiat. - woods
Trachynia distachya (L.) Link - T scap - Stenomedit. – arid meadows
Hordeum bulbosum L. - H caesp - Wide distribution - uncultivated lands
Hordeum marinum Huds. subsp. *marinum* - T scap - Atl. - uncultivated lands
Hordeum murinum L. subsp. *murinum* - T scap - Boreal - ruderal environments
Hordeum murinum subsp. *leporinum* (Link) Arcang. - T scap - Eurimedit. - ruderal environments
Elymus elongatus (Host) Runemark subsp. *elongatus* - H caesp - Eurimedit. – humid environments
Elymus farctus (Viv.) Runemark ex Malderis - G rhiz - Eurimedit. - dunes
Elymus repens (L.) Gould. subsp. *repens* - G rhiz - Boreal – arid meadows, uncultivated lands
Elymus athericus (Link) Kerguelen - G rhiz - Eurimedit. - arid meadows
Dasypyrum villosum (L.) P. Candargy, non Borbás - T scap - Eurimedit. - uncultivated lands
Triticum ovatum (L.) Raspail (*Aegilops geniculata* Roth) - T scap - Stenomedit. - uncultivated lands
Triticum biunciale (Vis.) K. Richter (*Aegilops geniculata* subsp. *biuncialis* (Vis.) Asch. & Gr.) - T scap - Stenomedit. - meadows along the coast
Triticum uniaristatum (Vis.) K. Richter (*Aegilops uniaristata* Vis.) - T scap - Amphiadriatic - meadows
Bianco & al. 1989, Marchiori & al. 1993
Triticum triunciale (L.) Raspail (*Aegilops triuncialis* L.) - T scap - Eurimedit. - meadows
Parapholis incurva (L.) C.E. Hubb. - T scap - Atl. – sandy soils, back dunes areas
Parapholis strigosa (Dumort.) C.E. Hubb. - T scap - Atl. – humid meadows
Hainardia cylindrica (Willd.) Greuter - T scap - Eurimedit. – halophilous clayey ground
Avena barbata Pott ex Link - T scap - Eurimedit. - uncultivated lands
Avena fatua L. - T scap - Eurasiat. - uncultivated lands, fields
Avena sterilis L. - T scap - Eurimedit. - uncultivated lands
Gaudinia fragilis (L.) P. Beauv. - T scap - Eurimedit. – arid meadows

- Holcus lanatus* L. - H caesp - Boreal – humid environments
- Rostraria litorea* (All.) Holub (*Lophochloa pubescens* (Lam.) Scholz) - T scap - Stenomedit. – sandy uncultivated lands
- Rostraria cristata* (L.) Tzvelev (*Lophochloa cristata* (L.) Hyl.) - T scap - Eurasiat. - meadows
- Rostraria hispida* (Savi) Dogan (*Lophochloa hispida* (Savi) Pign.) - T scap - Stenomedit. - uncultivated lands
- Trisetaria panicea* (Lam.) Maire - T scap - Stenomedit. - uncultivated lands
- Trisetaria aurea* (Ten.) Pignatti - T scap - Stenomedit. - uncultivated lands
- Agrostis pourretii* Willd. – T scap – Stenomedit. - humid environments
- Beccarisi & al. 2006
- Agrostis stolonifera* L. - H rept - Boreal - humid environments
- Calamagrostis epigejos* (L.) Roth - H caesp - Eurasiat. - humid environments
- Apera spica-venti* (L.) P. Beauv. - T scap - Eurasiat. - ruderal environments
- Gastridium ventricosum* (Gouan) Schinz & Thell. - T scap - Atl. – arid meadows
- Polypogon viridis* (Gouan) Breistr. - H caesp - Wide distribution - uncultivated lands
- Polypogon monspeliensis* (L.) Desf. - T scap - Wide distribution - sandy soils
- Polypogon maritimus* Willd. - T scap - Stenomedit. - sandy soils
- Polypogon subspathaceus* Req. - T scap - Stenomedit. - uncultivated lands
- Lagurus ovatus* L. subsp. *ovatus* - T scap - Eurimedit. - ruderal environments, uncultivated lands, arid meadows
- Aira caryophyllea* L. subsp. *caryophyllea* - T scap - Wide distribution - garigues
- Aira cupaniana* Guss. - T scap - Stenomedit. - garigues
- Corynephorus articulatus* (Desf.) P. Beauv. - T scap - Stenomedit. - meadows
- Ammophila arenaria* subsp. *australis* (Mabille) Láinz - G rhiz - Eurimedit. - dunes
- Phragmites australis* (Cav.) Trin. ex Steud. - G rhiz - Wide distribution - humid environments
- Arundo donax* L. - G rhiz - Exotic - humid environments
- Arundo plinii* Turra - G rhiz - Stenomedit. - humid environments
- Phalaris caeruleascens* Desf. - H caesp - Stenomedit. – arid meadows
- Phalaris aquatica* L. - H caesp - Stenomedit. - humid environments
- Phalaris paradoxa* L. - T scap - Stenomedit. - uncultivated lands
- Phalaris minor* Retz. - T scap - Wide distribution - meadows
- Phalaris canariensis* L. - T scap - Eurimedit. - uncultivated lands
- Phalaris brachystachys* Link - T scap - Stenomedit. - meadows
- Phalaris arundinacea* L. subsp. *arundinacea* - He - Boreal – humid meadows
- Beccarisi & al. 2006
- Anthoxanthum odoratum* L. - H caesp - Eurasiat. - meadows
- Alopecurus rendlei* Eig - T scap - Eurimedit. - meadows
- Alopecurus myosuroides* Huds. - T scap - Wide distribution - meadows
- Phleum arenarium* subsp. *caesium* H. Scholz - T scap - Atl. – sandy soils
- Phleum subulatum* (Savi) Asch. & Graebn. - T scap - Stenomedit. - sandy soils
- Phleum hirsutum* subsp. *ambiguum* (Ten.) Tzvelev - G rhiz - Endem. - meadows
- Marchiori & al. 1993
- Phleum exaratum* Hochst. ex Griseb. - T scap - Stenomedit. – meadows
- Phleum paniculatum* Hudson – T scap – Eurimedit.

- Spartina versicolor* Fabre - G rhiz - Exotic - humid environments
Marchiori & al. 1993
- Achnatherum bromoides* (L.) P. Beauv. (*Stipa bromoides* (L.) Dorfl.) - H caesp -
Stenomedit. - woods
- Stipa capensis* Thunb. - T scap - Stenomedit. – arid uncultivated lands
- Stipa austroitalica* Martinovský subsp. *austroitalica* - H caesp - Endem. – stony pastures
- Piptatherum miliacea* (L.) Coss. s.l. (*Oryzopsis miliacea* (L.) Asch. & Schweinf.) - H caesp
- Stenomedit. - uncultivated lands
- Piptatherum coerulescens* (Desf.) P. Beauv. (*Oryzopsis coerulescens* (Desf.) Richter) - H
caesp - Stenomedit. - cliffs
Marchiori & al. 1993
- Mibora minima* (L.) Desv. - T scap - Eurasiat. - uncultivated lands
- Eragrostis pilosa* (L.) Beauv. - T scap - Wide distribution - meadows
- Eragrostis cilianensis* (All.) Vignolo Lutati ex Janch. - T scap - Wide distribution - meadows
- Eragrostis minor* Host - T scap - Exotic - ruderal environments
- Eleusine indica* (L.) Gaertn. subsp. *indica* - T scap - Wide distribution - ruderal environ-
ments, uncultivated lands
- Sporobolus virginicus* Kunth - G rhiz - Wide distribution - dunes
- Crypsis aculeata* (L.) Aiton - T scap - Wide distribution – halophilous environments
Albano & al. 2005
- Crypsis schoenoides* (L.) Lam. - T scap - Wide distribution - humid environments
Beccarisi & al. 2006
- Cynodon dactylon* (L.) Pers. - G rhiz - Wide distribution - ruderal environments
- Tragus racemosus* (L.) All. - T scap - Wide distribution - ruderal environments
- Panicum repens* L. - G rhiz - Wide distribution - ruderal environments
- Panicum miliaceum* L. - T scap - Exotic - ruderal environments
- Panicum dichotomiflorum* Michx. - T scap - Exotic - humid environments
- Echinochloa colona* (L.) Link - T scap - Wide distribution - ruderal environments
- Echinochloa crus-galli* (L.) P. Beauv. - T scap - Wide distribution - ruderal environments
- Digitaria sanguinalis* (L.) Scop. - T scap - Wide distribution - ruderal environments
- Paspalum dilatatum* Poir. - P caesp - Exotic - humid environments
Marchiori & al. 1993
- Paspalum distichum* L. - G rhiz - Wide distribution - uncultivated lands
- Setaria viridis* (L.) P. Beauv. - T scap - Wide distribution - uncultivated lands
- Setaria verticillata* (L.) P. Beauv. (incl. *Setaria ambigua* Guss.) - T scap - Wide distribu-
tion - uncultivated lands
- Setaria verticillata* (L.) P. Beauv. - T scap - Wide distribution - uncultivated lands
- Setaria parviflora* (Poir.) Kerguélen (*S. geniculata* (Lam.) P. Beauv.) - H caesp – Exotic –
humid environments
Marchiori & al. 1993
- Pennisetum villosum* R. Br. - H caesp - Exotic - ruderal environments
Marchiori & al. 1993
- Cenchrus incertus* Curtis - T scap - Exotic - ruderal environments
- Imperata cylindrica* (L.) P. Beauv. - G rhiz - Wide distribution - humid environments
- Erianthus ravennae* (L.) P. Beauv. - H caesp - Eurimedit. - humid environments

Hemarthria altissima (Poiret) Stapf & Hubbard - T scap - Exotic - humid environments
Beccarisi & al. 2006

Sorghum halepense (L.) Pers. - G rhiz - Exotic - ruderal environments

Hyparrhenia hirta (L.) Stapf subsp. *hirta* - H caesp - Eurasiat. – arid meadows

Andropogon distachyos L. - H caesp - Eurasiat. – arid meadows

ARACEAE

Arum italicum Mill. subsp. *italicum* - G rhiz - Stenomedit. – maquis, woods

Arisarum vulgare Targ. Tozz. - G rhiz - Stenomedit. – uncultivated lands, olive yard

LEMNACEAE

Lemna trisulca L. - I nat - Wide distribution – stagnant waters

Lemna gibba L. - I nat - Wide distribution - stagnant waters

Lemna minor L. - I nat - Wide distribution - stagnant waters

Spirodela polyrrhyza (L.) Schleid. - I nat - Wide distribution - stagnant waters

Beccarisi & al. 2006

SPARGANIACEAE

Sparganium erectum L. subsp. *erectum* - I rad - Eurasiat. - humid environments

THYPHACEAE

Typha latifolia L. - G rhiz - Wide distribution - humid environments, stagnant waters

Typha angustifolia L. - G rhiz - Wide distribution - humid environments, stagnant waters

CYPERACEAE

Carex spicata Huds. - H caesp - Eurasiat. - humid environments

Carex distachya Desf. - H caesp - Stenomedit. - woods

Carex divulsa Stokes - H caesp - Eurimedit. - humid environments

Carex otrubae Podp. - H caesp - Atl. - humid environments

Carex divisa Huds. - G rhiz - Atl. - humid environments

Carex remota L. - H caesp - Eurasiat. - humid environments

Carex acuta L. - G rhiz - Eurasiat. - humid environments

Carex halleriana Asso - H caesp - Eurimedit. - woods

Carex distans L. - H caesp - Eurimedit. - humid environments also subhalophilous

Carex extensa Gooden. - H caesp - Atl. - halophilic humid environments

Carex riparia Curtis - G rhiz - Eurasiat. - humid environments

Carex hispida Willd. - G rhiz - Stenomedit. - humid environments

Carex flacca subsp. *serrulata* (Biv.) Greuter - G rhiz - Eurasiat. - woods

Carex hirta L. - G rhiz - Eurasiat. - humid environments

Bolboschoenus maritimus (L.) Palla - He - Wide distribution - humid environments

Holoschoenus romanus (L.) Fritsch - G rhiz - Stenomedit. - humid environments

Scirpoides holoschoenus (L.) Soják - G rhiz - Eurimedit. - humid environments

Schoenoplectus lacustris (L.) Palla - He - Wide distribution - stagnant waters

Schoenoplectus tabernaemontani (C.C. Gmel.) Palla - He - Eurasiat. - stagnant waters

Schoenoplectus triquetter (L.) Palla - He - Boreal - stagnant waters

- Schoenoplectus litoralis* (Schrad.) Palla - G rhiz - Wide distribution - humid environments
Isolepis cernua (Vahl) Roem. & Schult. - T scap - Wide distribution - humid environments
Eleocharis palustris (L.) Roem. & Schult. subsp. *palustris* - G rhiz - Wide distribution - humid environments
Eleocharis ovata (Roth) R. & S. - T scap - Boreal - humid environments
 Beccarisi & al. 2006
Schoenus nigricans L. - H caesp - Wide distribution - halophilic humid environments
Cladium mariscus (L.) Pohl - G rhiz - Wide distribution - marshes
Cyperus longus L. - He - Eurasiat. - marshes
Cyperus rotundus L. - G rhiz - Wide distribution - ruderal environments
Cyperus esculentus L. - G rhiz - Wide distribution - humid environments
 Beccarisi & al. 2006
Cyperus fuscus L. - T caesp - Eurasiat. - humid environments
Cyperus capitatus Vand. - G rhiz - Stenomedit. - humid environments
Cyperus laevigatus L. - G rhiz - Wide distribution - humid environments
Cyperus flavescens L. - T caesp - Wide distribution - humid environments

ORCHIDACEAE

- Ophrys bombyliflora* Link - G bulb - Stenomedit. - arid meadows
Ophrys tenthredinifera Willd. - G bulb - Stenomedit. - arid meadows
Ophrys bertolonii Moretti - G bulb - Stenomedit. - arid meadows
Ophrys apifera Huds. - G bulb - Eurimedit. - humid environments
Ophrys sphegodes Mill. subsp. *sphgodes* - G bulb - Eurimedit. - cleaning
Ophrys sphegodes subsp. *garganica* E. Nelson - G bulb - Eurimedit. - arid meadows
Ophrys incubacea Bianca - G bulb - Eurimedit. - arid meadows
Ophrys fuciflora subsp. *candica* E. Nelson ex Soó - G bulb - Endem. - arid meadows
Ophrys fuciflora subsp. *apulica* O. & E. Danesch - G bulb - Endem. - arid meadows
Ophrys fuciflora parvimaiculata O. & E. Danesch - G bulb - Endem. - arid meadows
Ophrys lutea Cav. - G bulb - Stenomedit. - arid meadows
Ophrys fusca Link subsp. *fusca* - G bulb - Stenomedit. - garigues
Orchis anthropophora (L.) All. - G bulb - Atl. - arid meadows
Serapias lingua L. - G bulb - Stenomedit. - arid meadows, uncultivated lands
Serapias parviflora Parl. - G bulb - Stenomedit. - arid meadows, uncultivated lands
Serapias vomeracea (Burm. f.) Briq. subsp. *vomeracea* - G bulb - Eurimedit. - arid meadows
Serapias vomeracea subsp. *orientalis* Greuter - G bulb - Endem. - garigues
Serapias cordigera L. - G bulb - Stenomedit. - garigues
Serapias politisii Renz - G bulb - Endem. - garigues
 Bianco & al. 1992
Barlia robertiana (Loisel.) Greuter - G bulb - Stenomedit. - arid meadows
Anacamptis pyramidalis (L.) Rich. - G bulb - Eurimedit. - arid meadows, uncultivated lands
Orchis papilionacea L. - G bulb - Eurimedit. - arid meadows, uncultivated lands
Orchis morio L. - G bulb - Eurasiat. - arid meadows
Orchis coriophora L. - G bulb - Eurimedit. - arid meadows, uncultivated lands
Orchis lactea Poir. - G bulb - Stenomedit. - arid meadows, garigues
 Bianco & al. 1991

Orchis italica Poir. - G bulb - Stenomedit. – arid meadows
Orchis laxiflora Lam. - G bulb - Eurimedit. - humid environments
Orchis palustris Jacq. - G bulb - Eurimedit. - humid environments
 Bianco & al. 1991; Marchiori & al. 1998 b; Gennaio & Mele 2001
Orchis collina Banks & Sol. ex Russell - G bulb - Stenomedit. – arid meadows
Epipactis microphylla (Ehrh.) Sw. - G rhiz - Eurasiat. - woods
Limodorum abortivum (L.) Sw. - G rhiz - Eurimedit. - woods and reafforestations
 Ruggiero & al. 1988
Spiranthes spiralis (L.) Chevall. - G rhiz - Eurasiat. - arid meadows

Conclusions

The flora of the Salento is made up of 1033 specific taxa and 307 subspecific taxa organised into 21 ferns and allied groups, 6 gymnosperms, 992 dicots and 321 monocots, for a total of 115 families and 560 genera (Tab. 1)

From the biological spectrum (Fig. 2) it is clearly visible that the therophytes (44.85%) are more numerous among Salento flora, followed by the hemicryptophytes (25.22%), geophytes (13.36%), camephytes (6.12%) and phanerophytes (5.75%). The considerable incidence of therophytes highlights a clear Mediterranean imprint of the investigated area. Also the domination of the Mediterranean chorological type (Eurimedit. with 22.46% and Stenomedit. with 29.93%) (Fig. 3) reflects the climatic characteristics and the particular geographic position of Salento.

Endemic species

The endemic species of the Salento are listed below. They represent 3.21% of all the flora. Endemics are subdivided in accordance with phyto-geographical criteria. The list includes 7 endemic species exclusive of the Salento and 4 endemic of the Apulia, while the others are endemic of Southern Italy and the Balkan Peninsula.

SALENTINE ENDEMICS

Iris revoluta Colasante
Centaurea japygica (Lacaita) Brullo
Centaurea leucadea Lacaita
Centaurea nobilis (Groves) Brullo
Dianthus japygicus Bianco & Brullo
Limonium japygicum (Groves) Pign.
Vicia giacominiiana Segelberg

APULIAN ENDEMICS

Serapias vomeracea (Burm. f.) Briq. subsp. *orientalis* Greuter
Limonium apulum Brullo
Ornithogalum refractum var. *adalgisae* (Groves) Groves
Leontodon apulus (Fiori) Brullo

APULIAN-CALABRO-LUCANIAN (SOUTHERN ITALIAN) ENDEMICIS

Anthemis hydruntina Groves*Crepis brulla* Greuter*Ophrys fuciflora* subsp. *parvimaculata* O. & E. Danesch*Onobrychis alba* subsp. *echinata* (G. Don) P.W. Ball*Centaurea tenacissima* (Groves) Brullo*Helianthemum jonium* Lacaita

APULIAN-SICILIAN ENDEMICIS

Micromeria microphylla (Durv.) Bentham*Centaurea deusta* subsp. *divaricata* (Guss.) Matthas & Pign.

Table 1. Taxonomic conspectus.

Divisions	N° taxa	%
<i>Pteridophyta</i>	21	1.57
<i>Pinophyta</i>	6	0.45
<i>Magnoliophyta Dicotyledones</i>	992	74.03
<i>Magnoliophyta Monocotyledones</i>	321	23.96
Families	N° taxa	%
<i>Leguminosae</i>	152	11.34
<i>Gramineae</i>	152	11.34
<i>Compositae</i>	147	10.97
<i>Labiatae</i>	54	4.03
<i>Umbelliferae</i>	52	3.88
<i>Cruciferae</i>	53	3.96
<i>Caryophyllaceae</i>	52	3.88
<i>Liliaceae</i>	42	3.13
<i>Scrophulariaceae</i>	40	2.99
<i>Orchidaceae</i>	32	2.39
<i>Cyperaceae</i>	33	2.46
<i>Chenopodiaceae</i>	27	2.01
<i>Ranunculaceae</i>	24	1.79
<i>Euphorbiaceae</i>	23	1.72
<i>Polygonaceae</i>	24	1.72
<i>Boraginaceae</i>	20	1.49
<i>Convolvulaceae</i>	18	1.34
<i>Rosaceae</i>	18	1.34
<i>Geraniaceae</i>	17	1.27
<i>Rubiaceae</i>	16	1.19
<i>Juncaceae</i>	15	1.12
<i>Iridaceae</i>	15	1.12
Others	315	23.51

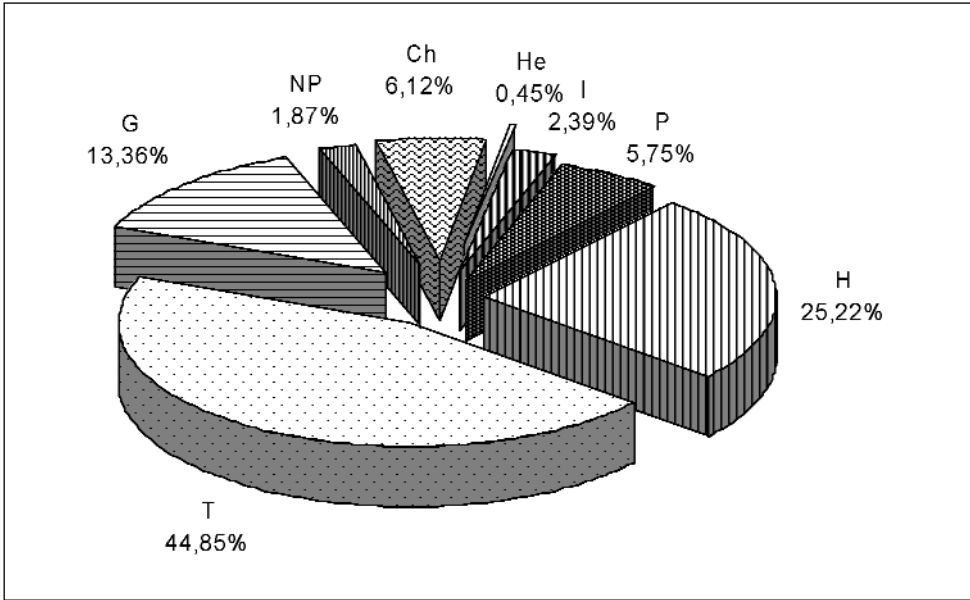


Fig. 2. Biological spectrum of the flora of Salento.

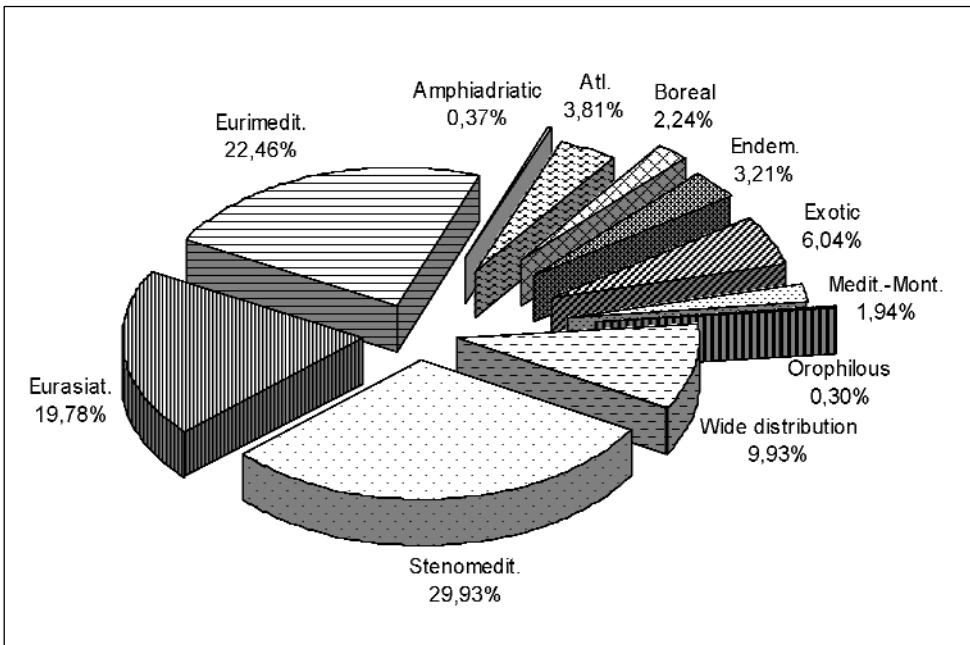


Fig. 3. Chorological spectrum of the flora of Salento.

SOUTHERN ITALY AND SICILY

Micromeria canescens (Guss.) Benth.

CENTRAL-SOUTHERN ITALIAN ENDEMIC

Carduus chrysacanthus Ten. subsp. *chrysacanthus*

Centaurea deusta Ten. subsp. *deusta*

Erodium nervulosum L'Hér.

Phleum hirsutum subsp. *ambiguum* (Ten.) Tzvelev

Polygonum romanum Jacq.

Seseli tommasinii Rchb. f.

Trifolium obscurum Savi

Verbascum niveum Ten. subsp. *niveum*

Ophrys fuciflora subsp. *apulica* O. & E. Danesch

Stipa austroitalica Martinovský subsp. *austroitalica*

Thymus spinulosus Ten.

Antirrhinum siculum Miller

Crepis bursifolia L.

SOUTHERN ITALY, SICILY AND SARDINIA

Carduus corymbosus Ten.

Biscutella maritima Ten.

ITALIAN-BALKAN ENDEMIC

Cytisus spinescens C. Presl.

Aurinia leucadea (Guss.) Koch

Trifolium mutabile Port.

Bonannia graeca (L.) Halacsy

Crocus thomasii Ten.

Iris pseudopumila Tineo

Ophrys fuciflora subsp. *candica* E. Nelson ex Soó

Serapias politisii Renz

Vincetoxicum hirundinaria subsp. *adriaticum* (Beck) Markgr.

Umbilicus chloranthus Heldr. & Sart. ex Boiss.

Species currently extinct

The floristic studies of the nineteenth and early twentieth centuries listed many species in the Salento that unfortunately have not been subsequently reconfirmed and are therefore considered to be probably extinct at the local level. These species have thus been excluded from the present list, which considers only recent and adequately documented records. Among the species excluded from the present checklist some were listed by Rabenhorst (1849a, 1849b), such as *Colutea arborescens* L. and *Aldrovanda vesiculosa* L. Of those recorded by Groves (1887) we excluded: *Aristolochia altissima* Desf., *Asphodeline lutea* Rchb., *Asplenium ruta-muraria* L., *Brassica incana* Ten., *Bupleurum fruticosum* L.,

Campanula rapunculus L., *Crucianella maritima* L., *Cyclamen repandum* S. & S., *Digitalis micrantha* L., *Dracunculus vulgaris* Sch., *Echinophora tenuifolia* L., *Euphorbia aleppica* L., *Genista tinctoria* L., *Gymnadenia conopsea* (L.) R. Br., *Globularia vulgaris* L., *Hepatica nobilis* Miller, *Medicago arborea* L., *Ophrys ciliata* Biv., *Scilla bifolia* L., *Teucrium campanulatum* L., *Thalictrum flavum* L. and others.

Of the species recorded by Marinosci (1870), *Ephedra distachya* L., *Trapa natans* L. and *Carpinus betulus* L. are not found today. Of the species recorded by Migliorato (1911), *Cucubalus baccifer* L. has not been sighted since.

This list shows how the flora of a territory is subject to change. It also shows how many species have disappeared at the local level, with a consequent loss of biodiversity (Albano & al. 2005).

Other species were incorrectly recorded, e.g. *Orchis tridentata* Scop. in Torre Castiglione (Montelucci & Parenzan 1967), confused with *Orchis lactea* Poir., which is highly common in that area; *Erica multiflora* L., indicated by Groves (1887) in the same places where *Erica manipuliflora* Salisb. is common today; *Utricularia vulgaris* L., indicated for the Alimini Lakes district (Macchia 1967) instead of *Utricularia australis* R. Br.; *Iris chamaeiris* Bertol., indicated for S. Pietro in Bevagna by Groves (1887) instead of *Iris pseudopumila* Tineo; *Aristolochia altissima* Desf. indicated for Gallipoli by Groves (1887) but confused with *Cynanchum acutum* L. (Nardi 1984); finally, in our opinion, *Cirsium palustre* (L.) Scop. indicated for the Alimini Lakes by Groves (1887), corresponds to *Cirsium creticum* (Lam.) D'Urv..

Very interesting is the number of the taxa listed in the Red Books, namely 31 species of the Italian Red Book (Conti & al. 1992) and 24 species of the Regional one (Conti & al. 1997) (Tab. 2).

Table 2. Taxa of the Apulian flora listed in the Red data books.

Taxon	IUCN Threat status	
	Italian Red Book	Regional Red Book
<i>Agrostemma githago</i> L.		VU
<i>Allium atroviolaceum</i> Boiss.		VU
<i>Althaea filiformis</i> Petit.	VU	CR
<i>Anthemis hydruntina</i> Groves	LR	CR
<i>Anthyllis barba-jovis</i> L.		VU
<i>Anthyllis hermanniae</i> L.		EN
<i>Aurinia leucadea</i> (Guss.) Koch	EN	EN
<i>Bassia hirsuta</i> (L.) Asch.	VU	VU
<i>Berteroa obliqua</i> (Sm.) DC. subsp. <i>obliqua</i>		VU
<i>Bonannia graeca</i> (L.) Halacsy		CR
<i>Campanula versicolor</i> Andrews	LR	EN
<i>Carduus chrysacanthus</i> Ten. subsp. <i>chrysacanthus</i>		LR
<i>Carum multiflorum</i> (Sibth. & Sm.) Boiss. subsp. <i>multiflorum</i>	LR	EN
<i>Centaurea leucadea</i> Lacaita	LR	CR
<i>Centaurea nobilis</i> (Groves) Brullo	CR	CR
<i>Ceratophyllum submersum</i> L. subsp. <i>submersum</i>		CR
<i>Convolvulus lineatus</i> L.		EN
<i>Coronilla juncea</i> L.		VU
<i>Cosentinia vellea</i> (Aiton) Tod. subsp. <i>vellea</i>		VU

Table 2. (continued.)

<i>Cressa cretica</i> L.	EN	VU
<i>Cytinus ruber</i> Fourr. ex Fritsch		CR
<i>Dianthus japigicus</i> Bianco & Brullo	CR	CR
<i>Echinops spinosissimus</i> Turra	EN	CR
<i>Elatine macropoda</i> Guss.	CR	CR
<i>Ephedra foeminea</i> Forssk.	LR	LR
<i>Epipactis microphylla</i> (Ehrh.) Sw.		EN
<i>Erica forskalii</i> Vitm.	VU	VU
<i>Eryngium barrelieri</i> Boiss.		VU
<i>Gagea foliosa</i> (J. & C. Presl) Schult. & Schult. f.		VU
<i>Gagea granatellii</i> (Parl.) Parl.		VU
<i>Ipomoea sagittata</i> Poiret	EN	VU
<i>Iris revoluta</i> Colasante	CR	CR
<i>Isoetes histrix</i> Bory		LR
<i>Juncus littoralis</i> C. A. Mey.		EN
<i>Limoniastrum monopetalum</i> (L.) Boiss.	VU	CR
<i>Limonium bellidifolium</i> (Gouan) Dumort.	VU	VU
<i>Linum maritimum</i> L.		EN
<i>Mandragora autumnalis</i> Bertol.		VU
<i>Moenchia mantica</i> (L.) Bartl.		CR
<i>Nymphaea alba</i> L.	VU	CR
<i>Onopordum tauricum</i> Willd.		EN
<i>Ophioglossum lusitanicum</i> L.		LR
<i>Ornithogalum refractum</i> var. <i>adalgisae</i> (Groves) Groves	EN	EN
<i>Orchis palustris</i> Jacq.	EN	EN
<i>Periploca graeca</i> L.	VU	EN
<i>Quercus ithaburensis</i> subsp. <i>macrolepis</i> (Kotschy) Hedge & Yalt.	LR	VU
<i>Sarcopoterium spinosum</i> (L.) Spach	VU	EN
<i>Serapias vomeracea</i> subsp. <i>orientalis</i> Greuter	VU	VU
<i>Triticum biunciale</i> (Vis.) K. Richter	CR	CR
<i>Triticum uniaristatum</i> (Vis.) K. Richter	EN	EN
<i>Umbilicus chloranthus</i> Heldr. & Sart. ex Boiss.	VU	VU
<i>Utricularia australis</i> L.	EN	EN
<i>Vicia giacominiiana</i> Segelberg	CR	CR
<i>Vincetoxicum hirsutinarum</i> subsp. <i>adriaticum</i> (Beck) Markgr.	VU	VU
<i>Vitex agnus-castus</i> L.		VU

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