

## **Vascular plant diversity of Mt Pendelikon (Sterea Ellas, Greece): a recent inventory reflecting contemporary dynamics**

Authors: Baliousis, Evangelos, and Yannitsaros, Artemios

Source: Willdenowia, 41(1) : 151-165

Published By: Botanic Garden and Botanical Museum Berlin (BGBM)

URL: <https://doi.org/10.3372/wi.41.41119>

---

BioOne Complete ([complete.BioOne.org](https://complete.BioOne.org)) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at [www.bioone.org/terms-of-use](https://www.bioone.org/terms-of-use).

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

---

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

EVAGELOS BALIOUSIS<sup>1\*</sup> & ARTEMIOS YANNITSAROS<sup>1</sup>

## Vascular plant diversity of Mt Pendelikon (Sterea Ellas, Greece): a recent inventory reflecting contemporary dynamics

### Abstract

Baliouis E. & Yannitsaros A.: Vascular plant diversity of Mt Pendelikon (Sterea Ellas, Greece): a recent inventory reflecting contemporary dynamics. – Willdenowia 41: 151–165. – Online ISSN 1868-6397; © 2011 BGBM Berlin-Dahlem.

doi:10.3372/wi.41.41119 (available via <http://dx.doi.org/>)

A detailed floristic study of the area of Mt Pendelikon in Sterea Ellas, Greece, in 1998–2009 resulted in the addition of 318 specific and infraspecific vascular plant taxa, which are reported here, to a present total of 1080 taxa. At least 41 adventives enriched the vascular plant diversity of the heavily urbanised area significantly as compared to previous sources. For each newly recorded taxon local distribution and habitat types are presented. Morphological, chorological and ecological comments are included where appropriate. *Filago aegaea* subsp. *aristata* is reported for the first time from the Greek mainland. Some of the new records are of taxa rare in Greece or of regional endemics and therefore chorologically, ecologically or taxonomically significant, such as *Cephalaria setulifera*, *Chenopodium pumilio*, *Consolida tenuissima*, *Iberis saxatilis*, *Johrenia distans*, *Malcolmia africana*, *Muscari armeniacum*, *Narduroides salzmännii*, *Onosma kaheirei*, *Satureja parnassica* subsp. *hellenica*, *Silene oligantha* subsp. *parnesia* and *Teucrium montanum* subsp. *helianthemoides*.

Additional key words: biodiversity, adventive plants, phytogeography, Attiki, Mediterranean region

### Introduction

Mt Pendelikon or Pendeli is located in the administrative territory of Sterea Ellas in mainland Greece and belongs to the homonymous unit according to the phytogeographical division in “Flora Hellenica” (Strid & Tan 1997) (Fig. 1). It is situated NE of the megalopolis of Athens and is the second highest mountain surrounding the capital of Greece. Its name is directly connected with the ancient Greek civilisation and especially with the “golden age” of Pericles in Athens. Its famous fine-grained white marbles were used for the construction of many monuments of Greek ancient art and first of all for the construction of the Parthenon and the whole complex of the Acropolis in Athens.

The highest peaks of Mt Pendelikon are Pirgari (1108 m), Piriza (897 m), Agios Pandeimon (876 m), Megali Mavrinora (783 m) and Mikri Mavrinora (677 m), all located in the main NW-SE axis of the mountain. Its

northern and southern parts consist mainly of lower hills c. 300–650 m high. The main substrates are marbles and schists (in many cases with marble intercalations) in about equal cover. The peripheral zone of the mountain consists mainly of fluvio-lacustrine and lacustrine-terrestrial deposits of upper Miocene (IGME 2001). The boundaries of the investigated area (see dot line in Fig. 1) are defined by the coordinates 38°00'00" to 38°09'47"N and 23°48'41" to 23°59'22"E.

Climatic data are available from the nearby meteorological stations of Marathon, Spata, Tatoi and Anavrita, all situated in an altitudinal range of 2–310 m. According to the climatic diagram by Emberger (1955, 1959) and Sauvage (1963), the bioclimate of the area is semi-arid with mild winter. The dry period, according to the ombrothermic diagram by Bagnouls & Gaussen (1957), lasts five (Anavrita) to six and a half (Spata) months. Regional and local differences exist, depending on altitude and

<sup>1</sup> Department of Ecology and Systematics, Faculty of Biology, University of Athens, Panepistimiopolis, 157 84 Athens, Greece;

\*e-mail: [baliouisiv@biol.uoa.gr](mailto:baliouisiv@biol.uoa.gr) (author for correspondence), [ayannit@biol.uoa.gr](mailto:ayannit@biol.uoa.gr)

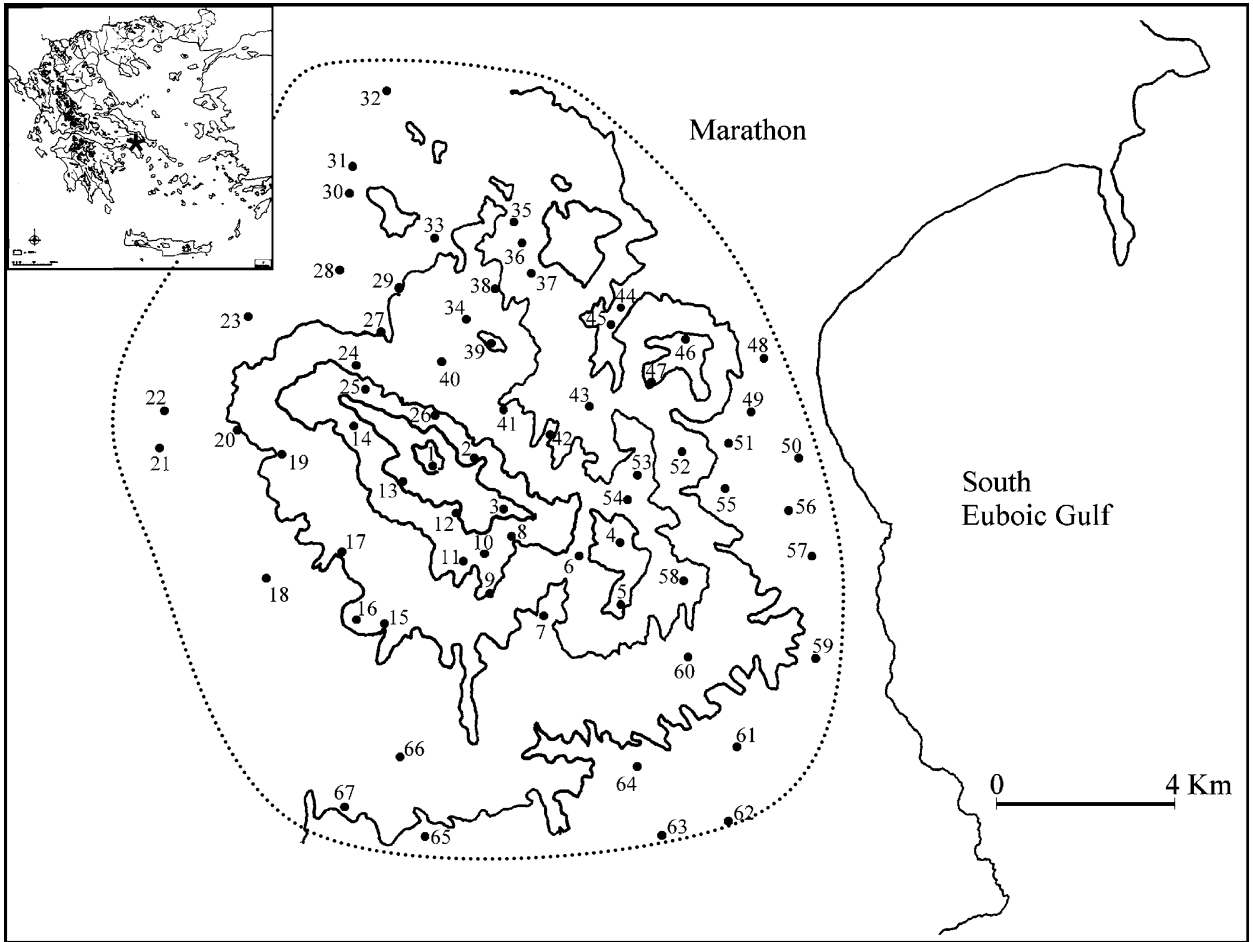


Fig. 1. Geographical position of Mt Pendelikon in Greece and map of the investigated area. – Localities indicated (compare with the List of localities and habitats) are: 1: Pirgari; 2: Vathia Chouni; 3: Piriza; 4: Megali Mavrinora; 5: Mikri Mavrinora; 6: Kalisia; 7: Agios Nikolaos; 8: Pournara spring; 9: Chrisouli Rachi; 10: Karidia; 11: Karaouli; 12: Agii Asomati; 13: Agios Ioannis; 14: Agios Pandeileimon; 15: Palea Pendeli; 16: Koufou hill; 17: Nea Pendeli; 18: Melissia; 19: Kokkinaras; 20: Politia; 21: Kifisia; 22: Nea Erithrea; 23: Ekali; 24: Profitis Ilias; 25: Osios Loukas; 26: Solinari; 27: Rea; 28: Drosia; 29: Rodopoli; 30: Anixi; 31: Agios Stefanos; 32: Pefkofito; 33: Stamata; 34: Agios Ioannis-Rodopoli; 35: Agia Paraskevi; 36: Koukounaries; 37: Makripouri; 38: Kria Vrissi; 39: Dionisovouni; 40: Dionisos; 41: Rapendosa; 42: Ambelakia; 43: Rapendosa hill; 44: Kimpitougios; 45: Rapendosa dam; 46: Agriliki; 47: Petroti; 48: Health Center; 49: Anatoli; 50: Nea Makri; 51: Pumping Station; 52: Mikro Agriliki; 53: Dionisos Satellite Station; 54: Agios Petros; 55: Osios Efrem; 56: Karlandera; 57: Agia Marina; 58: Vrachaki; 59: Neos Voutzas; 60: Daou Pendelis; 61: Kallitechnoupoli; 62: Katrapi; 63: Pikermi; 64: Dioni; 65: Pallini; 66: Anthousa; 67: Gerakas.

topography, i.e. the upper parts of the mountain and its north-facing slopes receive considerable higher amounts of precipitation.

The mountain has attracted the attention of many botanical collectors and investigators particularly because of its short distance from Athens. Among the most prominent were Theodor von Heldreich and Theodoros Orphanidis. Their records, 452 taxa, were summarised by Halácsy (1900–04, 1908, 1912). Haussknecht (1893–1900) and Formánek (1898) listed several records not cited by Halácsy. Other contributions to the flora of Mt Pendelikon area in the early 20th century include Vierhapper (1914, 1919) who reported 135 taxa (60 of them new for the area) and Rikli & Rübel (1923) who reported 138 taxa (39 of them new). Additional published information (61 taxa, 14 of them new) is included in Strid (1986) and Strid & Tan (1991). There are

also 485 records published by Sarlis (1994) but without collection data, many not confirmed by us and apparently erroneous. Kull (1982) and Pearce (2006) also report some new taxa for the area. Hermjakob (1969) and Krämer & Krämer (1983) added six taxa and one new orchid taxon. Additional records of only one taxon each have been found in other sources, mostly taxonomic revisions themselves unrelated to the flora of the mountain (Murbeck 1933; Patzak 1958; Zahariadi 1973; Stearn 1986; Davis & Jury 1990; Damanakis & Scholz 1990; Slageren 1994; Persson 1998; Snogerup & Snogerup 2001; Polatschek & Snogerup 2002). Finally 13 and 14 new records, respectively, are to be found in the phytosociological tables of the relevant research works that were carried out in certain parts of the mountain by Hermjakob (1977) and Theocharopoulos & Georgiadis (1984). Altogether 762 taxa were known with certainty

and reported from the mountain by 2010, but no comprehensive study on its flora is available.

The study area can be considered as one of the most human-influenced of Greece. The expansion of the city of Athens raised the demand for land mainly for residential use and led to the rush urbanisation of the area. A significant part of it is now covered with concrete buildings. The total population of the area is c. 190 000 according to the census of 2001 and concentrated mainly on the foothills surrounding the main mass of the mountain. The whole area has been swept repeatedly by wildfires in the last decades, the impact of which is visible in the physiognomy of the landscape and vegetation. Marble quarries, most of them inactive nowadays, cover an area of c. 300 ha mainly in the central parts of the mountain. Finally, to the anthropogenic effects in the landscape we can add grazing and the existence of military and telecommunication facilities especially in the upper parts of the mountain. All these human disturbances caused the destruction of many biotopes, rare or of special ecological and floristic interest in the landscape of Attiki. For example the small lake Thalassi, in the area of Nea Pendeli municipality where Heldreich collected some species of wet habitats, is now filled up with earth and converted to a football pitch. Nevertheless the mountain continuous to host a very rich and interesting flora and the main disparity with the past is that it has been enriched significantly with synanthropic taxa.

The present paper aims at an updated inventory of the flora of Mt Pendelikon based on extensive own field investigations between 1998 and 2009, presenting and evaluating the records of vascular plants new to the area.

## Material and methods

The study is based on collections and field observations made from 1998 to 2009 mainly by the first author. All specimens are temporarily kept in his personal herbarium and will be deposited in the Herbarium of the University of Athens (ATHU).

For identification, Tutin & al. (1968–80, 1993), Davis (1965–85), Strid (1986), Strid & Tan (1991, 1997, 2002) were used.

Nomenclature follows mainly Strid & Tan (1997, 2002), Greuter & al. (1984, 1986, 1989), Greuter & Raab-Straube (2008), Tutin & al. (1968–80, 1993) and Davis (1965–85). In a few cases more recent revisions have also been used (Speta 1982; Zimmer 1991; Kent 1997; Dardioti 2005; Persson 2007). Taxonomy and nomenclature of the family *Gramineae* follows the suggestions of H. Scholz (pers. comm.) and Valdés & Scholz (2006).

The families, genera, species and subspecies are listed within the major taxonomic groups in alphabetical order. Names of taxa not native to the area are put in square brackets. Transliteration of localities is in accordance with “Flora Hellenica” (Strid & Tan 1997, 2002).

With a few exceptions, only taxa to our knowledge new

for the investigated area appear in the catalogue given below. The following abbreviations are used: *Bal.* = E. Baliousis, *Y* = A. Yannitsaros, *obs.* = field observation, *phot.* = photograph.

## List of localities and habitats

1. Pirgari – a: *Quercus coccifera*-*Juniperus oxycedrus* subsp. *oxycedrus* scrub, schists and marbles, 900–1100 m; b: steep rocky slopes with *Ostrya carpinifolia*-*Quercus ilex* forest, schists and marbles, 850–1050 m; c: rocky plateau with low grass vegetation, marbles, 1000 m; d: cliff ledges, marbles, 970–1000 m; e: rocky slopes with *Quercus coccifera* scrub, marbles, 800–950 m; f: roadsides, 800–1100 m.
2. Vathia Chouni – a: steep rocky slopes with sparse *Quercus coccifera* scrub, marbles, 550–750 m; b: old quarry excavation, 900 m.
3. Piriza – a: rocky slopes with low *Quercus coccifera* scrub, marbles, 900–950 m; b: forest roadsides, 650–850 m.
4. Megali Mavrinora – a: rocky slopes with sparse *Quercus coccifera* scrub, marbles, 550–770 m; b: forest roadsides, 500–580 m.
5. Mikri Mavrinora – a: *Sarcopeterium spinosum*-*Genista acanthoclada* dominated phrygana, sandy schistose substrate, 650 m; b: small *Pinus halepensis* wood, schists, 540 m; c: shady cavities of vertical cliffs, marbles, 670 m.
6. Kalisia, 320–550 m – a: schistose slopes with phrygana and *Quercus coccifera* L.; b: phrygana and young *Pinus halepensis* trees, schists; c: along a stream; d: forest roadsides.
7. Agios Nikolaos, 300 m – a: wet streambed; b: road margins.
8. Pournara spring, 700–750 m – a: stony slopes with *Quercus coccifera*, schists; b: forest roadsides.
9. Chrisouli Rachi, 550–650 m – a: schistose slopes with phrygana; b: forest roadsides.
10. Karidia, schistose slopes with phrygana, 660 m.
11. Karaouli, 650–680 m – a: stream with *Platanus orientalis* L.; b: wet margins of forest road.
12. Agii Asomati, schistose slopes with phrygana and *Quercus coccifera*, 770–900 m.
13. Agios Ioannis, stony places with *Brachypodium retusum* (Pers.) P. Beauv. and phrygana, schists, 750–800 m.
14. Agios Pandleimon, 520–750 m – a: stony places reforested with *Cupressus sempervirens* L.; b: recently burnt area, marbles; c: disturbed ground (waste land, waste places, disturbed places).
15. Palea Pendeli, 550–650 m – a: openings of *Pinus halepensis* wood; b: stony slopes with phrygana; c: along a stream; d: margins of forest roads.
16. Koufou hill – a: rocky places with phrygana and scattered trees of *Juniperus phoenicea* L., marbles, 450 m; b: streambanks, 320–350 m.
17. Nea Pendeli, 460–550 m – a: stony places with phrygana, mainly schists; b: roadsides.

18. Melissia, 280–420 m – a: recently burnt area, sandy schistose substrate; b: streambanks; c: waste or disturbed places.
19. Kokkinaras, 400–450 m – a: open *Pinus halepensis* wood, schists; b: *Genista acanthoclada-Sarcopoterium spinosum* phrygana vegetation, schists; c: sandy streambed; d: forest roads.
20. Politia, tree-beds and street margins, 350–370 m.
21. Kifisia, 290–360 m – a: tree-beds, edges of pavements and streets, pavements, house yards, municipal gardens, road margins, waste places, disturbed places; b: stone walls.
22. Nea Erithrea, tree-beds, 310 m.
23. Ekali, 350–600 m – a: sparse *Pinus halepensis* wood, marbles; b: road margins.
24. Profitis Ilias, 550–600 m – a: *Pinus halepensis* forest; b: margins of paths and forest roads.
25. Osios Loukas, 650–700 m – a: open grassy slopes; b: abandoned fields with *Sarcopoterium spinosum* (L.) Spach; c: open places near the churchyard.
26. Solinari, shady places in small ravine, marbles, 700–780 m.
27. Rea, 400–500 m – a: clearings of dense *Pinus halepensis* forest; b: open scrub with *Quercus coccifera*, *Phillyrea latifolia* L. and *Olea europaea* subsp. *oleaster* (Hoffmanns. & Link) Negodi, marbles; c: stony places by a footpath.
28. Drosia, 350–380 m – a: abandoned fields; b: waste ground, street margins.
29. Rodopoli, 390–500 m – a: stony places with *Quercus coccifera* scrub, marbles; b: fallow fields; c: disturbed ground and roadsides, (disturbed places, edges of pavements and streets).
30. Anixi, 350–400 m – a: clearings of densely regenerated *Pinus halepensis* forest; b: along a torrent; c: uncultivated and fallow fields, d: disturbed places, (roadsides, disturbed ground, hedges of municipal park).
31. Agios Stefanos, 300–350 m – a: openings of *Pinus halepensis* forest; b: uncultivated and fallow fields; c: ditches; d: roadsides.
32. Pefkofito, 300–350 m – a: regenerated *Pinus halepensis* forest; b: uncultivated and abandoned fields with *Sarcopoterium spinosum*, red clay ground; c: road margins.
33. Stamata, 320–380 m – a: fallow fields; b: soil tips, crevices and edges of pavements, road margins; c: ditches.
34. Agios Ioannis–Rodopoli, 400–430 m – a: slowly running stream; b: road margins.
35. Agia Paraskevi, 350 m – a: stream with *Platanus orientalis*; b: sandy ditches; c: sandy fields and vineyards.
36. Koukounaries, sandy fields and vineyards, 350 m.
37. Makripouri, 200–350 m – a: sandy places in sparse *Pinus halepensis* wood; b: temporarily inundated sandy fields and streams; c: disturbed ground.
38. Kria Vrissi, 400–480 m – a: schistose slopes with phrygana; b: open rocky places, marbles.
39. Dionisovouni, 430–630 m – a: sparse *Quercus coccifera* scrub, marbles; b: open *Arbutus unedo* scrub, schists; c: open steep rocky slopes, marbles; d: forest roadsides and disturbed places.
40. Dionisos, 420–550 (–620) m – a: degraded macchie with *Arbutus* spp., schists; b: openings of *Pinus halepensis* forest; c: road margins, forest roadsides and disturbed places (soil tips, disturbed ground).
41. Rapendosa, 400–480 m – a: fallow fields; b: roadsides and street margins.
42. Ambelakia, fields, 400–420 m.
43. Rapendosa hill, 200–320 m – a: uncultivated and fallow fields; b: margins of rural road.
44. Kimpitougios, 120–140 m – a: sandy deposits in stream with *Platanus orientalis*; b: crevices of vertical cliffs, marbles.
45. Rapendosa dam, 140–150 m – a: sandy margins of a pool; b: disturbed ground.
46. Agriliki, marbles, 150–550 m – a: rocky slopes with phrygana and sparse *Juniperus phoenicea* wood; b: stony places with phrygana and *Quercus coccifera*; c: stony places in *Pinus halepensis* wood; d: open rocky places.
47. Petroti, 300–400 m – a: stony places with phrygana and *Quercus coccifera*, marbles; b: margins of forest roads.
48. Health Center, open grazed places with phrygana and scattered *Juniperus phoenicea* trees, marbles, 50 m.
49. Anatoli, 50–250 m – a: stony slopes with sparse *Juniperus phoenicea* wood, marbles; b: olive groves; c: street margins.
50. Nea Makri, ruderal places, (borders of pavements and disturbed ground, roadsides, crevices of pavements, flowerbeds), 20–30 m.
51. Pumping Station, grazed disturbed places and stony meadows, 140–170 m.
52. Mikro Agriliki, 150–340 m – a: rocky slopes with sparse *Juniperus phoenicea*–*Pinus halepensis* wood, marbles; b: *Pinus halepensis* wood, marbles; c: stony places with *Calicotome villosa* (Poir.) Link and regenerated *Pinus halepensis*, marbles; d: stony grazed fields; e: forest road margins.
53. Dionisos Satellite Station, stony places in open *Quercus coccifera* scrub, marbles, 450 m.
54. Agios Petros, 500–550 m – a: cavities of siliceous rock; b: roadsides.
55. Osios Efrem, 30–200 m – a: rocky slopes with open *Juniperus phoenicea* wood, marbles; b: openings of *Pinus halepensis* forest; c: roadsides.
56. Karlandera, cultivated fields and disturbed places (fences), 50–70 m.
57. Agia Marina, 70–100 m – a: openings of *Cistus monspeliensis* L. scrub; b: roadsides.
58. Vrachaki, 200–500 m – a: stream banks; b: forest roadsides.

59. Neos Voutzas, 50–250 m – a: phrygana of *Cistus* spp. in recently burnt area; b: openings of *Cistus monspeliensis-Calicotome villosa* scrub; c: roadsides.
60. Daou Pendelis, slopes with phrygana and regenerated *Pinus halepensis* forest, sandy schistose substrate, 350–400 m.
61. Kalliternoupoli, 120–170 m – a: meadows with *Stipa capensis* Thunb.; b: phrygana in reforested slopes.
62. Katrifi, slow-flowing stream, 110 m.
63. Pikermi, 110–150 m – a: fallow fields, cereal fields, vineyards; b: road margins.
64. Dioni, stream with *Platanus orientalis*, 140–150 m.
65. Pallini, 150–170 m – a: margins of vineyards; b: road margins.
66. Anthousa, uncultivated and fallow fields, 250 m.
67. Gerakas, uncultivated fields, 300 m.

### Additions to the vascular plant flora of Mt Pendelikon

The following list records 324 taxa, of which 318 are new to the flora of Mt Pendelikon, while six confirm questionable old records. As a result, the vascular plant flora of the area now comprises about 1080 taxa, 50 of which are adventives. The latter have by far the largest increase: 41 of the 50 adventives known were newly recorded from Mt Pendelikon, almost half of them also for Attiki, during the investigations in 1998–2009, emphasising the contemporary dynamics in the local vascular plant diversity due to the urban transformation of the area.

#### *Pteridophyta*

##### *Equisetaceae*

- Equisetum ramosissimum* Desf. – 15c, 25.4.2002, *Bal.* 521; 6c, 8.5.2003, *Bal.* 1362; 37b, 19.5.2003, *Bal.* 1456; 30b, 10.8.2004, *Bal.* 1642; 35b, 12.7.2007, *Bal.* 4012.
- Equisetum telmateia* Ehrh. – 44a, 24.3.2007, *Bal.* 3093; 64, 140 m, 14.4.2008, *Bal.* 4099.

##### *Polypodiaceae*

- Cosentinia vellea* (Aiton) Tod. – 46a, 27.4.2003, *Bal.* 1236. – The nomenclature of this species follows Zimmer (1991).
- Polypodium cambricum* L. s.l. – 46a, 20.10.2006, *Bal.* 2783.

#### *Spermatophyta*

##### *Angiospermae – Dicotyledones*

##### *Acanthaceae*

- [*Acanthus mollis* L.] – 20, 23.5.2008, *Bal. obs.*; 21a, 7.5.2009, *Bal. obs.*; 23b, 7.5.2009, *Bal. obs.*

##### *Aizoaceae*

- [*Aptenia cordifolia* (L. f.) Schwantes] – 50, 15.10.2006, *Bal.* 2761. – Possibly this is the first record of this species from Attiki.

##### *Amaranthaceae*

- [*Amaranthus albus* L.] – 56, 23.6.2002, *Bal.* 983; 35c, 12.7.2007, *Bal. obs.*
- [*Amaranthus blitoides* S. Watson] – 40c, 12.10.1980, *Y obs.*; 63a, 3.10.2006, *Bal.* 2741; 37c, 14.10.2006, *Bal.* 2752; 29c, 14.9.2007, *Bal. obs.*
- [*Amaranthus hybridus* L.] – 50, 10.9.2007, *Bal.* 4057. – This seems to be the first record of this species from Attiki.
- [*Amaranthus quitensis* Kunth] – 21a, 6.9.2007, *Bal.* 4041. – As far as we know this is the first record of this species from Attiki.
- [*Amaranthus viridis* L.] – 30b, 10.8.2004, *Bal.* 1643; 21a, 6.9.2007, *Bal.* 4042; 50, 10.9.2007, *Bal.* 4047.

##### *Apocynaceae*

- [*Vinca major* L. subsp. *major*] – 30d, 7.5.2007, *Bal.* 3613; 55c, 14.4.2008, *Bal. obs.*

##### *Asclepiadaceae*

- Cionura erecta* (L.) Griseb. – 58a, 8.6.2002, *Bal.* 942.
- Cynanchum acutum* L. subsp. *acutum* – 65a, 23.8.2004, *Bal.* 1670; 30d, 16.8.2006, *Bal.* 2730; 34b, 21.8.2007, *Bal. obs.*

##### *Betulaceae*

- Ostrya carpinifolia* Scop. – 1b, 7.6.2003, *Bal.* 1528.

##### *Boraginaceae*

- Anchusa italica* Retz. – 30c, 10.5.2002, *Bal.* 714; 31b, 19.5.2003, *Bal.* 1461.
- Anchusella variegata* (L.) Bigazzi & al. – 49a, 27.4.2003, *Bal.* 1276; 52a, 14.2.2007, *Bal.* 2880; 48, 15.2.2007, *Bal. obs.*
- Borago officinalis* L. – 28b, 5.5.2005, *Bal.* 1737; 59c, 21.4.2007, *Bal. obs.*
- Cynoglossum creticum* Mill. – 30d, 20.5.2006, *Bal.* 2501; 61a, 21.4.2007, *Bal. obs.*; 15a, 23.4.2008, *Bal. obs.* – Our records confirm an old report by Haussknecht (1896) not cited by Halácsy (1900–04, 1908, 1912).
- Echium plantagineum* L. – 39d, 30.4.2002, *Bal.* 583.
- Heliotropium hirsutissimum* Grauer – 40c, 22.8.2004, *Bal.* 1667; 17b, 27.10.2006, *Bal.* 2813.
- Nonea echioides* (L.) Roem. & Schult. – 63a, 17.6.2007, *Bal.* 3868.
- Onosma kaheirei* Teppner – 1e, 7.6.2003, *Bal.* 1547.

##### *Campanulaceae*

- Campanula erinus* L. – 52a, 30.3.2007, *Bal.* 3127; 59c, 21.4.2007, *Bal.* 3353a; 63a, 21.4.2007, *Bal.* 3353b; 20, 28.4.2007, *Bal. obs.*; 19d, 9.5.2008, *Bal. obs.*
- Legousia falcata* (Ten.) Janch. – 6a, 5.5.2002, *Bal.* 615.
- Legousia hybrida* (L.) Delarbre – 42, 20.4.2002, *Bal.* 415; 52d, 31.3.2008, *Bal. obs.*
- Legousia speculum-veneris* (L.) Chaix – 4a, 7.5.2002, *Bal.* 685; 5b, 5.5.2007, *Bal.* 3597.

**Caryophyllaceae**

- Arenaria muralis* (Link) Spreng. – 46a, 24.3.2007, *Bal.* 3046; 39c, 25.4.2007, *Bal.* 3462. – Rare in Attiki.
- Bolanthus graecus* (Schreb.) Barkoudah – 3a, 24.5.2002, *Bal.* 916; 2a, 27.6.2002, *Bal.* 1028.
- Cerastium brachypetalum* subsp. *atheniense* (Lonsing) P. D. Sell & Whitehead – 46b, 24.3.2007, *Bal.* 3087; 1a, 3.4.2007, *Bal.* 3167; 26, 2.5.2008, *Bal.* 4148a;
- Cerastium pumilum* subsp. *glutinosum* (Fr.) Corb. – 50, 9.4.2007, *Bal.* 3223. – Rare in Attiki.
- Cerastium semidecandrum* L. – 40a, 20.4.2002, *Bal.* 423b; 1c, 3.4.2007, *Bal.* 3178; 18a, 23.4.2008, *Bal.* 4123; 1b, 23.5.2008, *Bal.* 4226.
- Minuartia mesogitana* (Boiss.) Hand.-Mazz. subsp. *mesogitana* – 12, 14.4.2007, *Bal.* 3259; 40c, 2.5.2007, *Bal.* 3560; 5a, 5.5.2007, *Bal.* 3579. – Rare in Attiki.
- Paronychia macedonica* Chaudhri – 1e, 8.7.2006, *Bal.* 2677; 1c, 22.6.2007, *Bal.* 3934. – Rare in Attiki.
- Silene corinthiaca* Boiss. & Heldr. – 2a, 27.6.2002, *Bal.* 1027; 1a, 3.6.2007, *Bal.* 3756; 52a, 12.6.2007, *Bal.* 3830.
- Silene nocturna* L. – 6d, 24.4.2003, *Bal.* 1207; 30a, 10.5.2003, *Bal.* 1374; 51, 30.3.2007, *Bal.* 3128; 61b, 17.6.2007, *Bal.* 3858.
- Silene oligantha* subsp. *parnesia* Greuter – 14a, 21.6.1998, *Bal.* 127; 8a, 25.6.1998, *Bal.* 161; 3a, 18.6.2002, *Bal.* 969; 1e, 8.7.2006, *Bal.* 2676; 1a, d, 22.6.2007, *Bal.* 3929. – This recently described taxon (Greuter 1995) was considered until now as local endemic of the nearby Mt Parnitha. In Mt Pendelikon it grows both on schists and marbles. It is fairly common in the higher altitudinal zone of the central part of the mountain and was reported recently by Baliouis & Yannitsaros (2009) from Pendelikon without collection data. An old record of *S. radicata* Boiss. & Heldr. “in cacumine m. Pentelici in fissuris rupium” (Haussknecht 1894; Halácsy 1900) probably also refers to *S. oligantha* subsp. *parnesia*.
- Silene tenuiflora* Guss. – 66, 23.4.2007, *Bal.* 3432. – Rare in Attiki.
- Silene vulgaris* subsp. *macrocarpa* Turrill – 42, 20.4.2002, *Bal.* 445.
- Silene vulgaris* (Moench) Garcke s.l. – 26, 2.5.2008, *Bal.* 4142. – The cited population is clearly distinguished from a nearby one of *S. vulgaris* subsp. *megalosperma* (Sart. ex Heldr.) Hayek by its robust, suffrutescent growth, the largest leaves up to 100 × 45 mm, and its later flowering.
- Spergularia bocconeii* (Scheele) Graebn. – 19d, 9.5.2008, *Bal.* 4175.
- Spergularia rubra* (L.) J. Presl & C. Presl – 50, 21.4.2007, *Bal.* 3428. – Rare in Attiki.
- Stellaria cupaniana* (Jordan & Fourr.) Bég. – 46c, 29.3.2003, *Bal.* 1093; 39d, 20.4.2003, *Bal.* 1177; 46b, 24.3.2007, *Bal.* 3086; 25a, 6.4.2007, *Bal.* 3207.
- Stellaria pallida* (Dumort.) Crép. – 52b, 30.3.2007, *Bal.* 3135; 1a, 3.4.2007, *Bal.* 3168; 25a, 6.4.2007, *Bal.*

3208b; 5c, 5.5.2007, *Bal.* 3599. – The nomenclature of this species follows Kent (1997).

**Chenopodiaceae**

- Atriplex patula* L. – 35b, 12.7.2007, *Bal.* 4002b. – Rare in Attiki.
- Atriplex prostrata* DC. – 30d, 10.8.2004, *Bal.* 1657.
- Beta vulgaris* subsp. *maritima* (L.) Arcang. – 14c, 21.6.1998, *Bal.* 135; 8b, 25.6.1998, *Bal.* 153a; 29c, 30.7.2002, *Bal.* 1069; 33a, 18.7.2007, *Bal.* 4029. – The listed occurrences are from far beyond the known altitudinal range of this taxon in Greece (0–200 m) as given by Tan (1997). The existence of many taxa of coastal habitats in the interior parts of the investigated area is probably a consequence of the transportation of many loads of gravel and sand (including deposited diaspores) for the intensive building and road construction activities during the last decades.
- [*Chenopodium giganteum* D. Don] – 50, 30.9.2007, *Bal.* 4056; 41b, 19.12.2008, *Bal.* obs.
- Chenopodium murale* L. – 56, 12.8.2007, *Bal.* 4037.
- Chenopodium opulifolium* W. D. J. Koch & Ziz – 40c, 22.10.2006, *Bal.* 2804.
- [*Chenopodium pumilio* R. Br.] – 33b, 12.7.2007, *Bal.* 4010. – First record from S Greece. This xenophyte of Australian origin was first reported for Greece from the Kato Olimbos area (Bergmeier 1988). A few more records have been added since the publication of “Flora Hellenica” (Strid & Tan 1997) in which it is mapped only for E Thessaly (Nomos Larisis). More recently Schuler (2007) reported it from Makedonia (Nomos Serron). Hitherto unpublished records include also localities from Epirus (Nomos Thesprotias; Strid, in litt.). The presence of *C. pumilio* in the investigated area is probably connected with the existence of many herds of sheep. This is also in accordance with the dispersal mode reported by Bergmeier (1988).
- Salsola kali* L. – 8b, 11.10.2001, *Bal.* 304; 9b, 25.6.2002, *Bal.* 1015; 45a, 14.9.2007, *Bal.* obs.; 17b, 18.9.2008, *Bal.* obs.

**Cistaceae**

- Fumana arabica* (L.) Spach – 46b, 20.4.2001, *Bal.* 280; 2a, 27.6.2002, *Bal.* 1038b; 61b, 10.3.2007, *Bal.* 2982. – This species was first recorded from the area of Nea Makri in the phytosociological tables of Theocharopoulos & Georgiadis (1984). Our records confirm its presence in Mt Pendelikon.
- Fumana procumbens* (Dunal) Gren. & Godr. – 1d, 22.6.2007, *Bal.* 3931. – To our knowledge this is the first record of this species from Attiki.
- Fumana scoparia* Pomel – 59a, 10.3.2007, *Bal.* 2968.

**Compositae**

- Anacyclus clavatus* (Desf.) Pers. – 14c, 21.6.1998, *Bal.* 95; 66, 23.4.2007, *Bal.* 3435.

- Anthemis* cf. *arvensis* L. – 6d, 500 m, 24.4.2003, *Bal.* 1204; 51, 30.3.2007, *Bal.* 3126; 36, 12.7.2007, *Bal.* 4015.
- Anthemis auriculata* Boiss. – 46d, 29.3.2003, *Bal.* 1123a; 6d, 8.5.2003, *Bal.* 1370a; 4b, 5.5.2007, *Bal.* 3581; 36, 15.5.2007, *Bal.* 3704; 58b, 30.4.2008, *Bal.* 4133.
- Cardopatum corymbosum* (L.) Pers. – 51, 12.6.2007, *Bal.* 3820.
- Carduus acicularis* Bertol. – 31b, 18.5.2007, *Bal.* 3742.
- Carlina lanata* L. – 59b, 17.6.2007, *Bal.* 3848.
- Centaurea calcitrapa* L. – 33b, 14.10.2006, *Bal.* 2753; 29c, 28.6.2007, *Bal.* 3950.
- Cota altissima* (L.) J. Gay – 66, 23.4.2007, *Bal.* 3434.
- Crepis dioscoridis* L. – 40a, 18.5.2002, *Bal.* 836; 3a, 24.5.2002, *Bal.* 911; 55a, 3.5.2003, *Bal.* 1316.
- Crepis sancta* (L.) Bornm. – 40a, 20.4.2002, *Bal.* 439a.
- Crepis setosa* Haller f. – 57b, 8.6.2002, *Bal.* 945.
- [*Erigeron bonariensis* L.] – 8b, 11.10.2001, *Bal.* 309; 54b, 19.10.2007, *Bal.* 4059; 21a, 24.7.2007, *Bal. obs.*
- [*Erigeron sumatrensis* Retz.] – 21a, 7.9.2002, *Bal.* 1081; *ibid.*, 14.2.2010, *Y obs.*; 19c, 27.10.2006, *Bal.* 2820.
- Filago aegaea* subsp. *aristata* Wagenitz – 19b, 23.5.2001, *Bal.* 258; 60, 21.4.2007, *Bal.* 3413. – According to Wagenitz (in litt.), the above records of this taxon are the first for the Greek mainland. He supposes that it has often been overlooked or determined as *F. pyramidata* L. The known distribution area of this taxon includes islands of the Aegean and Ionian Seas (Wagenitz 1970; Gutermann, pers. comm. 1995) and Cyprus (Greuter & Raab-Straube 2008).
- Filago eriocephala* Guss. – 6c, 5.5.2002, *Bal.* 640.
- Geropogon hybridus* (L.) Sch. Bip. – 49a, 27.4.2003, *Bal.* 1238.
- Lactuca saligna* L. – 41b, 10.8.2004, *Bal.* 1621; 40c, 14.9.2007, *Bal. obs.*; 21a, 5.8.2008, *Bal. obs.*
- Lactuca viminea* subsp. *ramosissima* (All.) Arcang. – 52a, 12.6.2007, *Bal.* 3827; 46d, 11.7.2007, *Bal.* 3999.
- Onopordum caulescens* subsp. *atticum* Franco – 25a, 16.6.1998, *Bal.* 54; 2a, 8.7.2006, *Bal.* 2656; 1f, 23.5.2008, *Bal.* 4253.
- Pilosella halácsyi* (Halácsy) Soják – 1a, 22.6.2007, *Bal.* 3910.
- Ptilostemon afer* (Jacq.) Greuter subsp. *afer* – 1f, 22.6.2007, *Bal.* 3943.
- Ptilostemon chamaepeuce* (L.) Less. – 44b, 9.5.2007, *Bal.* 3644.
- Pulicaria odora* (L.) Rchb. – 40a, 7.6.2003, *Bal.* 1511.
- Rhagadiolus edulis* Gaertn. – 44a, 24.3.2007, *Bal.* 3092.
- Sonchus asper* subsp. *glaucescens* (Jord.) Ball – 31b, 19.5.2003, *Bal.* 1458; 27a, 15.6.2003, *Bal.* 1558.
- [*Symphotrichum squamatum* (Spreng.) G. L. Nesom] – 40c, 12.10.1980, *Y obs.*; 21a, 7.9.2002, *Bal.* 1080; *ibid.*, 14.2.2010, *Y obs.*
- Tragopogon dubius* Scop. – 58b, 30.4.2008, *Bal.* 4136; 46a, 23.4.2009, *Bal.* 4368. – As far as we know this is the first record of this species from Attiki.
- Tussilago farfara* L. – 3b, 24.5.2002, *Bal.* 917. 11a, 25.6.2002, *Bal.* 1005.
- Tyrinnus leucographus* (L.) Cass. – 63b, 21.4.2007, *Bal.* 3426.
- [*Xanthium orientale* subsp. *italicum* (Moretti) Greuter] – 30b, 10.8.2004, *Bal.* 1655; 65b, 23.8.2004, *Bal.* 1668. – This seems to be the first record of the taxon from Attiki.
- Xeranthemum inapertum* (L.) Mill. – 2b, 24.5.2002, *Bal.* 891; 1e, 5.5.2005, *Bal.* 1730a.

## Convolvulaceae

- Convolvulus betonicifolius* Mill. – 32b, 18.5.2007, *Bal.* 3746. – To our knowledge this is the first record of the taxon from Attiki.
- Convolvulus cantabrica* L. – 40a, 17.5.2002, *Bal.* 805.
- Convolvulus pentapetaloides* L. – 32b, 18.5.2007, *Bal.* 3736; 14b, 9.5.2008, *Bal.* 4180.
- Convolvulus siculus* L. subsp. *siculus* – 55a, 3.5.2003, *Bal.* 1334.
- [*Cuscuta campestris* Yunck.] – 35b, 12.7.2007, *Bal.* 4013. This seems to be the first record of this species from Attiki.
- Cuscuta palaestina* Boiss. subsp. *palaestina* – 42, 18.5.2002, *Bal.* 830. 5a, 5.5.2007, *Bal.* 3574; 46a, 9.5.2007, *Bal.* 3659; 1a, 12.5.2007, *Bal.* 3680; 18a, 23.4.2008, *Bal.* 4123.
- Cuscuta planiflora* Ten. – 32b, 18.5.2007, *Bal.* 3729.
- [*Ipomoea purpurea* (L.) Roth] – 56, 31.10.2007, *Bal.* 4064. – Cultivated for ornament in Greece and escaping. To our knowledge this is the first record of this species as an adventive from Attiki.

## Crassulaceae

- Umbilicus chloranthus* Boiss. – 46a, 9.5.2007, *Bal.* 3661. – Rare in Attiki.
- Umbilicus horizontalis* (Guss.) DC. – 52a, 4.11.2006, *Bal.* 2836.
- Umbilicus rupestris* (Salisb.) Dandy – 54a, 7.5.2002, *Bal.* 660; 26, 3.6.2007, *Bal.* 3760; 1a, 23.5.2008, *Bal.* 4238.

## Cruciferae

- Alyssum strigosum* Banks & Sol. – 43b, 31.5.2003, *Bal.* 1477b.
- Aurinia saxatilis* subsp. *orientalis* (Ard.) T. R. Dudley – 55a, 3.5.2003, *Bal.* 1327.
- Brassica cretica* subsp. *aegaea* (Heldr. & Halácsy) Snogerup & al. – 1e, 2.5.2008, *Bal.* 4150.
- Bunias erucago* L. – 63b, 10.3.2007, *Bal.* 2975.
- [*Capsella grandiflora* (Fauché & Chaub.) Boiss.] – 36, 21.2.2007, *Bal.* 2898. – This species is an endemic of W Greece and Albania where it locally occurs in great populations. First record for Attiki from Timvos Marathonos (Yannitsaros 1973) where it seems to be a recent introduction, thus belonging to the category of endoneophytes (Yannitsaros & Economidou 1974).



*Cardamine graeca* L. – 34b, 19.3.2007, *Bal.* 3017.

*Erophila praecox* (Steven) DC. – 8a, 12.3.2001, *Bal.* 181a; 39a, 31.1.2007, *Bal.* 2836; 36, 21.2.2007, *Bal.* 2895; 1b, 3.3.2007, *Bal.* 2934; 1c, 3.4.2007, *Bal.* 3175a; 1a, 3.4.2007, *Bal.* 3175b; 14b, 4.3.2008, *Bal.* 4079.

*Erophila spathulata* Láng – 40a, 8.3.2002, *Bal.* 328; 36, 21.2.2007, *Bal.* 2896. – This seems to be the first record of this species from Sterea Ellas.

*Erysimum atticum* Boiss. – 26, 2.5.2008, *Bal.* 4140.

*Erysimum corinthium* (Boiss.) Wettst. – 46a, 9.5.2007, *Bal.* 3660. – Rare in Attiki.

*Hesperis laciniata* All. subsp. *laciniata* – 49a, 27.4.2003, *Bal.* 1254.

*Iberis saxatilis* L. s.l. – 1e, 10.5.2002, *Bal.* 729; *ibid.*, 3.4.2007, *Bal.* 3187; *ibid.*, 12.5.2007, *Bal.* 3694b. – This is the first record of this taxon for Attiki. *I. saxatilis* is rather rare in Greece, known from mountains of N Greece, Mt Giona and its vicinity (Sterea Ellas) and Mt Chelmos (Peloponnisos; Tan 2002). The isolated population on Mt Pendelikon is small and grows beyond the known altitudinal range of the species in Greece (1750–2300 m, according to Tan 2002) though it is known to occur at even lower altitudes in other countries (Dirmenci 2005). Our specimens show some differences from typical *I. saxatilis* and may represent a local taxon. In general appearance the plants are more robust, the leaf shape is somewhat different and the leaf margin is rather rigid-scabridulous than ciliate. There are also differences in the (higher) number of flowers per inflorescence, the length of pedicels and the size of flowers and fruits. Further studies on more material and in the field are needed to gain a conclusion as to the taxonomic status of this population.

*Lepidium graminifolium* L. – 23b, 28.10.2006, *Bal.* 2821. – Rare in Attiki.

*Malcolmia africana* (L.) R. Br. – 4b, 7.5.2002, *Bal.* 679; 13, 11.5.2002, *Bal.* 752; 47b, 29.3.2003, *Bal.* 1113; 1f, 9.5.2009, *Bal. obs.* – As we conclude from the habitat data, the occurrence of this species in the area is related to forest road construction and marble quarries. All our findings and especially the one S of the summit Pargari are beyond the known altitudinal range of the species in Greece (0–80 m). However, it is known in Turkey to ascend to high altitudes (Georgiou 2002), reaching up to 2800 m (Cullen 1965). From our repeated observations in the last eight years it seems that its populations in the above localities are small but stable, indicating an adaptation to more colder temperatures of this thermophilous species (Georgiou 2002).

*Rapistrum rugosum* (L.) All. – 30a, 14.5.2002, *Bal.* 769; 31b, 19.5.2003, *Bal.* 1459; 30d, 10.8.2004, *Bal.* 1649; 14c, 5.5.2005, *Bal.* 1736c.

*Sisymbrium officinale* (L.) Scop. – 25c, 16.6.1998, *Bal.* 8; 30a, 14.5.2002, *Bal.* 768.

## **Cucurbitaceae**

*Bryonia cretica* L. – 55a, 3.5.2003, *Bal.* 1336; 52a, 14.2.2007, *Bal. obs.*; 48, 15.2.2007, *Bal. obs.*

## **Dipsacaceae**

*Cephalaria ambrosioides* (Sm.) Roem. & Schult. – 52a, 4.11.2006, *Bal.* 2838; 26, 26.2.2008, *Bal.* 4073; 4a, 14.5.2008, *Bal. obs.*

*Cephalaria setulifera* Boiss. & Heldr. – 1a, 8.7.2006, *Bal.* 2693; 1d, 22.6.2007, *Bal.* 3932. – An endemic species of E Sterea Ellas and Evvia, possibly undercollected due to its late flowering (see also Constantinidis 1997).

*Cephalaria transsylvanica* (L.) Roem. & Schult. – 31d, 23.8.2004, *Bal.* 1671.

*Dipsacus fullonum* L. – 31c, 15.11.2006, *Bal.* 2844; 31a, 11.9.2008, *Bal. obs.*

*Sisylx atropurpurea* subsp. *maritima* (L.) Greuter & Burdet – 25c, 16.6.1998, *Bal.* 87; 14c, 21.6.1998, *Bal.* 101; 27c, 7.6.2003, *Bal.* 1567b; 30d, 10.8.2004, *Bal.* 1636; 1f, 22.6.2007, *Bal.* 3939.

## **Euphorbiaceae**

*Chrozophora tinctoria* (L.) A. Juss. – 30c, 10.8.2004, *Bal.* 1658; 63a, 17.6.2007, *Bal.* 3853.

*Euphorbia chamaesyce* L. – 59c, 17.6.2007, *Bal.* 3845a; 61a, 17.6.2007, *Bal.* 3845b; 36, 12.7.2007, *Bal. obs.*

*Euphorbia exigua* L. – 17a, 22.4.2002, *Bal.* 492; 6a, 24.4.2003, *Bal.* 1196; 52a, 14.2.2007, *Bal.* 2884; 46a, 24.3.2007, *Bal.* 3021a; 36, 10.4.2007, *Bal.* 3238; 23, 9.6.2007, *Bal.* 3812.

*Euphorbia peplus* L. – 43a, 2.4.2002, *Bal.* 370; 19a, 9.4.2002, *Bal.* 1140a; 29a, 20.4.2003, *Bal.* 1179; 52a, 14.2.2007, *Bal.* 2882; 61b, 10.3.2007, *Bal.* 2996; 21a, 14.4.2007, *Bal.* 3284; 39c, 25.4.2007, *Bal.* 3463b.

[*Euphorbia prostrata* Aiton] – 56, 12.8.2006, *Bal.* 2728. – As far as we know this is the first record of this species from Attiki.

*Mercurialis annua* L. – 47a, 29.3.2003, *Bal.* 1111; 52a, 14.2.2007, *Bal. obs.*; 63b, 10.3.2007, *Bal. obs.*

## **Gentianaceae**

*Blackstonia acuminata* (Koch & Ziz) Domin – 11b, 25.6.2002, *Bal.* 1006b; 61a, 21.4.2007, *Bal.* 3392; 44a, 9.5.2007, *Bal.* 3633c.

*Centaureum tenuiflorum* (Hoffmanns. & Link) Fritsch subsp. *tenuiflorum* – 11b, 25.6.2002, *Bal.* 1007; 47a, 17.5.2003, *Bal.* 1436; 30a, 30.5.2003, *Bal.* 1468a; 61a, 21.4.2007, *Bal.* 3389; 6b, 5.5.2007, *Bal.* 3573; 24b, 9.6.2007, *Bal.* 3803; 37b, 12.7.2007, *Bal.* 4021b.

*Centaureum tenuiflorum* subsp. *acutiflorum* (Schott) Zeltner – 37b, 12.7.2007, *Bal.* 4021a.

## **Geraniaceae**

*Erodium botrys* (Cav.) Bertol. – 40c, 7.5.2002, *Bal.* 701. – This seems to be the first record of this species from Attiki.

- Erodium gruinum* (L.) L'Hér. – 49c, 27.4.2003, *Bal.* 1277.  
*Erodium malacoides* (L.) L'Hér. – 33a, 26.5.2002, *Bal.* 929; 47a, 29.3.2003, *Bal.* 1128; 52e, 14.2.2007, *Bal.* 2888.  
*Geranium columbinum* L. – 1a, 3.4.2007, *Bal.* 3156.  
*Geranium dissectum* L. – 29b, 27.4.2002, *Bal.* 553; 62, 21.4.2007, *Bal. obs.*  
*Geranium tuberosum* L. subsp. *tuberosum* – 31b, 9.4.2007, *Bal.* 3234.

### Labiatae

- Calamintha nepeta* subsp. *glandulosa* (Req.) P. W. Ball – 28a, 20.10.2006, *Bal.* 2792.  
*Clinopodium vulgare* subsp. *orientale* Bothmer – 1b, 7.6.2003, *Bal.* 1539; 44a, 9.5.2007, *Bal.* 3636. – This confirms an old report by Formánek (1898). Nomenclature is according to Bothmer (1967).  
*Lamium bifidum* Cirillo subsp. *bifidum* – 21a, 11.3.2007, *Bal.* 3003.  
*Mentha spicata* subsp. *condensata* (Briq.) Greuter & Burdet – 31c, 15.11.2006, *Bal.* 2842.  
*Salvia argentea* L. – 61a, 21.4.2007, *Bal.* 3386.  
*Salvia virgata* Jacq. – 32c, 22.4.2007, *Bal.* 3431.  
*Satureja parnassica* subsp. *hellenica* (Halácsy) Dardioti – 1d, 22.6.2007, *Bal.* 3933. The nomenclature of this taxon follows Dardioti (2005).  
*Sideritis curvidens* Stapf – 52a, 30.3.2007, *Bal.* 3119; 61a, 21.4.2007, *Bal. obs.*; 16a, 23.4.2008, *Bal. obs.*  
*Sideritis raeseri* subsp. *attica* (Heldr.) Papan. & Kokkini – 1c, 23.5.2008, *Bal.* 4244.  
*Stachys graeca* Boiss. & Heldr. – 30c, 10.8.2004, *Bal.* 1627.  
*Teucrium capitatum* L. – 1a, 16.6.1998, *Bal.* 64; 3a, 18.6.2002, *Bal.* 949; 55a, 3.5.2003, *Bal.* 1342. – The records of the related *T. polium* L. from Mt Pendelikon (Formánek 1898; Sarlis 1994) and other mountains of Attiki (Diapoulis 1958; Zerlentis 1965) actually refer to *T. capitatum* following Greuter & al. (1986). *T. polium* s.str. is confined to the W Mediterranean eastwards as far as Corsica and Tunisia.  
*Teucrium divaricatum* Heldr. subsp. *divaricatum* – 52c, 3.5.2003, *Bal.* 1348; 6a, 17.6.2007, *Bal.* 3889.  
*Teucrium divaricatum* subsp. *graecum* (Čelak.) Bornm. – 23a, 9.6.2007, *Bal.* 3793.  
*Teucrium montanum* subsp. *helianthemoides* Adamović – 1d, 30.9.2007, *Bal.* 4054. – *T. montanum* s.l. is rare in Attiki. Until now there was only one old report, based on specimens collected by Tountas in Mt Parnitha (Halácsy 1912). Since then it has not been reported by other investigators of the flora of Mt Parnitha. It can be assumed that its population in Mt Parnitha is very small as is the case in Mt Pendelikon.

### Leguminosae

- Genista monspessulana* (L.) L. A. S. Johnson – 40a, 7.5.2002, *Bal.* 711. – To our knowledge there are no previous records of this taxon from Attiki.

- Lathyrus hirsutus* L. – 37b, 31.5.2003, *Bal.* 1501.  
*Lathyrus saxatilis* (Vent.) Vis. – 1e, 28.4.2007, *Bal.* 3511.  
*Lathyrus setifolius* L. – 4a, 14.5.2008, *Bal.* 4197.  
*Lens ervoides* (Brign.) Grande – 1e, 28.4.2007, *Bal.* 3513.  
*Lotus angustissimus* L. – 36, 15.5.2007, *Bal.* 3715.  
*Lotus conimbricensis* Brot. – 40a, 7.5.2002, *Bal.* 670.  
*Lotus edulis* L. – 49a, 27.4.2003, *Bal.* 1265; 55a, 3.5.2003, *Bal.* 1354; 62, 21.4.2007, *Bal. obs.*  
*Lotus peregrinus* L. – 61a, 21.4.2007, *Bal.* 3387.  
*Lotus tenuis* Willd. – 11b, 25.6.2002, *Bal.* 992. – The nomenclature of this species is according to Lassen (in litt., based on Kirkbride 1995).  
*Lupinus micranthus* Guss. – 6a, 8.5.2003, *Bal.* 1367.  
*Medicago constricta* Durieu – 40b, 15.5.2002, *Bal.* 787; 52c, 3.5.2003, *Bal.* 1329; 40a, 13.5.2003, *Bal.* 1419; 61a, 21.4.2007, *Bal.* 3388.  
*Medicago littoralis* Loisel. – 30d, 10.5.2003, *Bal.* 1375; 27c, 10.5.2003, *Bal.* 1379b; 44a, 9.5.2007, *Bal.* 3646.  
*Medicago praecox* DC. – 6a, 8.5.2003, *Bal.* 1371a.  
*Medicago rugosa* Desr. – 40c, 13.5.2003, *Bal.* 1417.  
*Melilotus graecus* (Boiss. & Spruner) Lassen – 52c, 3.5.2003, *Bal.* 1320; 46a, 23.4.2009, *Bal.* 4374.  
*Melilotus indicus* (L.) All. – 8b, 25.6.1998, *Bal.* 144; 40c, 13.5.2003, *Bal.* 1412; 31b, 20.5.2006, *Bal.* 2504; 61a, 21.4.2007, *Bal.* 3406.  
*Melilotus sulcatus* Desf. – 58b, 19.5.2002, *Bal.* 880.  
*Ononis mitissima* L. – 30a, 30.5.2003, *Bal.* 1464.  
*Ononis spinosa* subsp. *antiquorum* (L.) Arcang. – 43a, 7.6.2002, *Bal.* 941; 30c, 11.7.2002, *Bal.* 1055.  
*Securigera securidaca* (L.) Degen & Dörfler – 41a, 15.5.2002, *Bal.* 784.  
*Trifolium boissieri* Guss. – 38a, 25.4.2007, *Bal.* 3454; 44a, 9.5.2007, *Bal.* 3639a; 46a, 9.5.2007, *Bal.* 3639b.  
*Trifolium globosum* L. – 36, 7.5.2007, *Bal.* 3617; 32b, 18.5.2007, *Bal. obs.*  
*Trifolium glomeratum* L. – 24b, 10.5.2003, *Bal.* 1378b; 36, 15.5.2007, *Bal. obs.*  
*Trifolium grandiflorum* Schreb. – 42, 20.4.2002, *Bal.* 433; 46a, 24.3.2007, *Bal.* 3077.  
*Trifolium hirtum* All. – 9a, 5.5.2008, *Bal.* 4160. – In the above mentioned locality this species coexist with *T. cherleri* L., from which it is clearly distinguished by its later flowering, its more robust habit and the more globose inflorescences. The flowering time of *T. hirtum* is April to June and of *T. cherleri* March to May (Zohary & Heller 1984).  
*Trifolium lucanicum* Guss. – 49a, 9.4.2007, *Bal.* 3216; 44a, 9.5.2007, *Bal.* 3640.  
*Trifolium spumosum* L. – 63a, 10.3.2007, *Bal.* 2988.  
*Trifolium suffocatum* L. – 4a, 14.5.2008, *Bal.* 4195.  
*Vicia cuspidata* Boiss. – 42, 20.4.2002, *Bal.* 427. – As far as we know this is the first record of the species from Attiki.  
*Vicia narbonensis* L. – 31b, 26.3.2007, *Bal.* 3105.  
*Vicia peregrina* L. – 61a, 21.4.2007, *Bal.* 3402.

*Vicia sativa* subsp. *macrocarpa* (Moris) Arcang. – 41a, 15.5.2002, *Bal.* 783.

*Vicia sativa* subsp. *nigra* (L.) Ehrh. – 15d, 25.4.2002, *Bal.* 542; 6c, 8.5.2003, *Bal.* 1364; 59c, 21.4.2007, *Bal.* 3361; 38a, 25.4.2007, *Bal.* 3459; 30c, 2.5.2007, *Bal.* 3549.

[*Vicia sativa* L. subsp. *sativa*] – 25b, 10.5.2003, *Bal.* 1384; 63b, 10.3.2007, *Bal.* 2978.

*Vicia sibthorpii* Boiss. – 30c, 10.5.2002, *Bal.* 716; 52d, 31.3.2008, *Bal. obs.*

*Vicia villosa* subsp. *eriocarpa* (Hausskn.) P. W. Ball – 14c, 19.4.2001, *Bal.* 211; 29b, 2.4.2002, *Bal.* 376b; 66, 24.5.2002 *Bal.* 924; 62, 21.4.2007, *Bal.* 3407; 36, 15.5.2007, *Bal.* 3714.

### Linaceae

[*Linum grandiflorum* Desf.] – Kifisia, in graminosis ad marginem viae uno in loco subspontaneum, 300 m, 27.4.1972, *Greuter* 9854 (ATH!). – Possibly this is the first record of this cultivated ornamental species, as an adventive, for the Greek mainland. According to Greuter (in litt.) the species was grown at the above locality in good quantity but had vanished the following year and it is considered as casual.

*Linum trigynum* L. – 9a, 25.6.2002, *Bal.* 998; 59b, 21.4.2007, *Bal.* 3357a; 19b, 28.4.2007, *Bal.* 3525; 6b, 5.5.2007, *Bal.* 3593; 27b, 9.6.2007, *Bal.* 3794.

### Malvaceae

[*Abutilon theophrasti* Medik.] – 21a, 25.9.2002, *Bal.* 1085. – To our knowledge there are no previous records of this species from Attiki.

*Althaea hirsuta* L. – 14b, 9.5.2008, *Bal.* 4181.

*Lavatera bryoniifolia* Mill. – 40c, 31.5.2003, *Bal.* 1495.

*Lavatera cretica* L. – 14c, 21.6.1998, *Bal.* 98; 65b, 20.5.2002, *Bal.* 885; 40c 13.5.2003, *Bal.* 1410; 45b, 24.3.2007, *Bal.* 3038.

### Nyctaginaceae

[*Mirabilis jalapa* L.] – 40c, 13.9.2008, *Bal.* 4319; 28b, 17.9.2009, *Bal. obs.*; 18c, 30.11.2009, *Bal. obs.*

### Onagraceae

*Epilobium hirsutum* L. – 30b, 10.8.2004, *Bal.* 1638; 37b, 14.10.2006, *Bal.* 2747. 29c, 23.9.2008, *Bal. obs.*

*Epilobium lamyi* F. W. Schultz – 30b, 10.8.2004, *Bal.* 1639; 35a, 12.7.2007, *Bal.* 4002a.

*Epilobium tournefortii* Michalet – 33c, 18.7.2007, *Bal.* 4030. – First record from Attiki. Specific rank is taxonomically appropriate for this taxon according to Snogerup (in litt.).

### Orobanchaceae

*Orobanche ramosa* subsp. *mutelii* (F. W. Schultz) Cout. – 52a, 30.3.2007, *Bal.* 3140b.

*Orobanche ramosa* subsp. *nana* (Reut.) Cout. – 46a, 9.5.2007, *Bal.* 3666; 16a, 23.4.2008, *Bal.* 4129.

*Orobanche pubescens* d'Urv. – 55a, 3.5.2003, *Bal.* 1323; 46b, 9.5.2007, *Bal.* 3665.

### Papaveraceae

[*Papaver somniferum* L. subsp. *somniferum*] – 18a, 23.4.2008, *Bal.* 4121.

### Phytolaccaceae

[*Phytolacca americana* L.] – 49c, 23.9.2006, *Bal.* 2738; 29c, 26.9.2007 *Bal. obs.*; 33b, 15.10.2008, *Bal. obs.* – Rare in Attiki.

### Plantaginaceae

*Plantago afra* L. – 14b, 9.4.2003, *Bal.* 1147; 6a, 24.4.2003, *Bal.* 1199; 1f, 3.4.2007, *Bal.* 3191.

*Plantago major* L. s.l. – 30b, 10.8.2004, *Bal.* 1626; 40c, 12.7.2007, *Bal.* 4026a; 21a, 5.8.2008, *Bal. phot.*

### Polygonaceae

*Persicaria lapathifolia* (L.) S. F. Gray subsp. *lapathifolia* – 31c, 10.8.2004, *Bal.* 1656; 40c, 26.9.2007, *Bal.* 4049.

*Polygonum aviculare* L. subsp. *aviculare* – 8b, 25.6.1998, *Bal.* 152; 46b, 20.4.2001, *Bal.* 270; 40c, 18.5.2002, *Bal.* 843. – Possibly this is the first record of this taxon from Attiki.

*Polygonum aviculare* subsp. *neglectum* (Besser) Arcang. – 29c, 30.7.2002, *Bal.* 1073; 40c, 22.10.2006, *Bal.* 2805; 21a, 5.8.2008, *Bal.* 4257.

*Polygonum bellardii* All. – 23b, 10.8.2006, *Bal.* 2726. – Rare in Attiki. Not mapped for Attiki by Strid & Tan (1997) although there is a recent record from Mt Passtra (Constantinidis 1997).

*Polygonum equisetiforme* Sm. – 30d, *Bal.* 1629; 63b, 3.10.2006, *Bal.* 2740. – Rare in Attiki.

*Polygonum longipes* Halácsy & Charrel – 37c, 14.10.2006, *Bal.* 2751. – Rare in Attiki.

*Rumex crispus* L. – 30b, 10.8.2004, *Bal.* 1634b; 40c, 12.6.2007, *Bal.* 3833. – Rare in Attiki.

*Rumex cristatus* DC. – 30b, 10.8.2004, *Bal.* 1634a; 21a, 30.9.2007, *Bal.* 4053. – Rare in Attiki.

*Rumex pulcher* subsp. *raulinii* (Boiss.) Rech. f. – 25c, 16.6.1998, *Bal.* 53; 30c, 26.5.2002, *Bal.* 928.

*Rumex pulcher* subsp. *woodsii* (De Not.) Arcang. – 36, 12.7.2007, *Bal.* 4014.

### Rafflesiaceae

*Cytinus hypocistis* subsp. *clusii* Nyman – 10, 21.4.2007, *Bal.* 3422; 39b, 12.5.2009, *Bal. phot.*

### Ranunculaceae

*Adonis microcarpa* DC. – 31b, 18.5.2007, *Bal.* 3735.

*Clematis cirrhosa* L. – 2a, 22.10.2006, *Bal.* 2797; 52a, 4.11.2006, *Bal.* 2832.

*Clematis vitalba* L. – 3b, 18.6.2002, *Bal.* 951.

*Consolida tenuissima* (Sm.) Soó – 46a, 9.5.2007, *Bal.* 3656; 52a, 12.6.2007, *Bal.* 3828. – Our findings ex-

pand the distribution range of this rare endemic which is restricted to a few localities in Attiki. An old record from Evvia (*Fraas*, cited by Halácsy 1901) has not been confirmed (Constantinidis pers. comm.).

*Ranunculus gracilis* E. D. Clarke – 24a, 6.4.2007, *Bal.* 3195a.

### Rhamnaceae

*Rhamnus saxatilis* subsp. *prunifolia* (Sm.) Aldén – 1b, 8.7.2006, *Bal.* 2715; 1a, 22.6.2007, *Bal.* 3923.

### Rosaceae

*Potentilla reptans* L. – 24a, 15.6.2003, *Bal.* 1563; 30b, 10.8.2004, *Bal.* 1647; 35b, 15.5.2007, *Bal.* 3712.

### Rubiaceae

*Crucianella angustifolia* L. – 1a, 23.5.2008, *Bal.* 4227.

*Galium capitatum* Bory & Chaub. – 61a, 17.6.2007, *Bal.* 3863.

*Galium heldreichii* Halácsy – 1b, 8.7.2006, *Bal.* 2694; 1a, 22.6.2007, *Bal.* 3922.

*Galium murale* (L.) All. – 46b, 24.3.2007, *Bal.* 3025; 59b, 21.4.2007, *Bal.* 3340a.

*Galium setaceum* Lam. s.l. – 55a, 3.5.2003, *Bal.* 1326; 52a, 30.3.2007, *Bal.* 3125; 61a, 21.4.2007, *Bal.* 3400; 38b, 25.4.2007, *Bal.* 3449; 6b, 5.5.2007, *Bal.* 3598; 57a, 14.4.2008, *Bal.* 4096.

*Galium spurium* L. – 1a, 12.5.2007, *Bal.* 3692.

*Galium tricornerutum* Dandy – 67, 20.4.2007, *Bal.* 3333.

*Galium verum* L. subsp. *verum* – 25c, 16.6.1998, *Bal.* 26; 1f, 22.6.2007, *Bal.* 3940.

*Valantia muralis* L. – 17a, 22.4.2002, *Bal.* 485; 47a, 29.3.2003, *Bal.* 1104; 2a, 8.7.2006, *Bal.* 2675.

### Rutaceae

*Ruta graveolens* L. – 2a, 27.6.2002, *Bal.* 1029.

### Santalaceae

*Thesium humile* Vahl – 61a, 21.4.2002, *Bal.* 3399.

### Sapindaceae

[*Koeleruteria paniculata* Laxm.] – 21a, 26.6.2009, *Bal.* 4440. – This species is a native of China, cultivated for ornament in many places of Attiki, frequently escaping and growing subspontaneously. It was recently reported as a new adventive species for Greece from the area of Athens and it is possibly in the process of naturalisation in irrigated ground (Yannitsaros 2004).

### Scrophulariaceae

[*Antirrhinum majus* L. s.l.] – 18c, 30.11.2009, *Bal.* obs.; 21a, 20.1.2010, *Bal.* obs.

*Bellardia trixago* (L.) All. – 31b, 20.5.2006, *Bal.* 2503; 39d, 12.5.2009, *Bal.* obs.

[*Cymbalaria muralis* G. Gaertn. & al. subsp. *muralis*] – 21b, 11.3.2007, *Bal.* 3000. – To our knowledge this is the first record of this taxon from Attiki.

*Kickxia commutata* subsp. *graeca* (Bory & Chaub.) R. Fern. – 63a, 17.6.2007, *Bal.* 3865.

*Kickxia elatine* subsp. *crinita* (Mabille) Greuter – 30d, 10.8.2004, *Bal.* 1623; 61a, 21.4.2007, *Bal.* 3391.

*Kickxia spuria* subsp. *integrifolia* (Brot.) R. Fern. – 30d, 10.8.2004, *Bal.* 1622.

*Linaria chalepensis* (L.) Mill. – 49b, 7.5.2005, *Bal.* 1750.

*Linaria micrantha* (Cav.) Hoffmanns. & Link – 36, 21.2.2007, *Bal.* 2900; 63a, 21.4.2007, *Bal.* 3378.

*Linaria simplex* (Willd.) DC. – 14a, 19.4.2001, *Bal.* 256; 63a, 10.3.2007, *Bal.* 2980; 1e, 28.4.2007, *Bal.* 3510.

*Verbascum sinuatum* L. – 40c, 26.11.2001, *Bal.* 316; 30c, 11.7.2002, *Bal.* 1057.

*Veronica anagallis-aquatica* L. – 62, 21.4.2007, *Bal.* 3410; 34a, 25.4.2007, *Bal.* 3470; 44a, 9.5.2007, *Bal.* 3629.

*Veronica hederifolia* L. – 67, 26.3.2007, *Bal.* 3099b.

[*Veronica persica* Poir.] – 56, 2.4.2002, *Bal.* 393; 21a, 22.3.2009, *Bal.* obs.

*Veronica polita* Fr. – 63a, 21.4.2007, *Bal.* 3384; 57a, 15.2.2007, *Bal.* 4069; 19c, 9.5.2008, *Bal.* 4167.

### Simaroubaceae

[*Ailanthus altissima* (Mill.) Swingle] – 40c, 3.6.2007, *Bal.* 3784; 30d, 25.6.2007, *Bal.* obs.; 21a, 5.8.2008, *Bal.* phot.

### Solanaceae

[*Datura innoxia* Mill.] – 33b, 14.10.2006, *Bal.* 2748. – As far as we know this is the first record of this species from Attiki.

[*Lycopersicon esculentum* Mill.] – 22, 12.7.2008, *Bal.* obs.; 21a, 26.6.2009, *Bal.* obs. – A casual escape of cultivation.

[*Nicotiana glauca* Graham] – 7b, 17.6.2007, *Bal.* 3885.

*Solanum nigrum* L. – 56, 23.6.2002, *Bal.* 981 (subsp. *nigrum*); 36, 12.7.2007, *Bal.* obs.; 21a, 5.8.2008, *Bal.* obs.

### Umbelliferae

*Anthriscus caucalis* M. Bieb. – 21a, 22.3.2009, *Bal.* 4335. – To our knowledge new to Attiki.

*Apium nodiflorum* (L.) Lag. – 44, 11.7.2007, *Bal.* 3990; 33c, 18.7.2007, *Bal.* 4032; 34a, 26.6.2008, *Bal.* obs.

*Bupleurum gracile* d'Urv. – 52a, 12.6.2006, *Bal.* 3829; 61a, 17.6.2007, *Bal.* 3857.

*Eryngium creticum* Lam. – 30c, 11.7.2002, *Bal.* 1051.

*Johrenia distans* (Griseb.) Halácsy – 46d, 11.7.2007, *Bal.* 3995. – Our specimen has fruits 5–6 mm long instead of 3 mm as given by Tutin (1968) and in agreement with Constantinidis & Yannitsaros (1996) and Constantinidis (1997).

*Oenanthe pimpinelloides* L. – 35a, 12.7.2007, *Bal.* 4003.

*Pimpinella peregrina* L. – 63a, 17.6.2007, *Bal.* 3854.

*Scandix pecten-veneris* L. subsp. *pecten-veneris* – 14c, 19.4.2001, *Bal.* 241; 40c, 21.3.2002, *Bal.* 355; 36, 21.2.2007, *Bal.* 2902; 1a, 3.4.2007, *Bal.* 3176.  
*Smyrniolus olusatrum* L. – 49c, 12.6.2007, *Bal.* 3821; 21a, 14.5.2008, *Bal. obs.*  
*Torilis arvensis* subsp. *purpurea* (Ten.) Hayek – 15c, 25.4.2002, *Bal.* 525; 44a, 9.5.2007, *Bal.* 3631; 4a, 14.5.2008, *Bal.* 4202.

### **Urticaceae**

*Parietaria lusitanica* L. – 46a, 24.3.2007, *Bal.* 3048; 52a, 30.3.2007, *Bal.* 3131; 39c, 25.4.2007, *Bal.* 3460.

### **Valerianaceae**

*Valerianella carinata* Loisel. – 35a, 15.5.2007, *Bal.* 3721.  
*Valerianella dentata* (L.) Pollich – 14c, 19.4.2001, *Bal.* 209b; 12, 29.4.2002, *Bal.* 576; 6b, 5.5.2007, *Bal.* 3594; 18a, 23.4.2008, *Bal.* 4124.

### **Angiospermae – Monocotyledones**

#### **Amaryllidaceae**

*Narcissus serotinus* L. – 55b, 31.10.2007, *Bal.* 4062. – This species was first recorded from the investigated area in the phytosociological tables of Hermjakob (1977). Our record confirms its presence there.  
*Narcissus tazetta* subsp. *italicus* (Ker Gawl.) Baker – 28a, 7.2.2007, *Bal.* 2876; 32b, 29.2.2007, *Bal. obs.*  
*Sternbergia lutea* (L.) Spreng. – 28a, 20.10.2006, *Bal.* 2771.

### **Araceae**

*Arisarum vulgare* O. Targ.Tozz. subsp. *vulgare* – 46a, 20.10.2006, *Bal.* 2777; 52a, 4.11.2006, *Bal.* 2833.

### **Cyperaceae**

*Carex divisa* Huds. – 25b, 6.4.2007, *Bal.* 3203.  
*Carex pendula* Huds. – 44a, 9.5.2007, *Bal.* 3625.  
*Cyperus longus* L. – 25c, 16.6.1998, *Bal.* 80; 44a, 9.5.2007, *Bal.* 3627; 35b, 12.7.2007, *Bal.* 4011b.  
*Scirpoides holoschoenus* (L.) Soják – 15c, 25.4.2002, *Bal.* 519; 30b, 10.8.2004, *Bal.* 1632; 19c, 27.10.2006, *Bal.* 2819; 62, 21.4.2007, *Bal.* 3411; 1f, 18.9.2008, *Bal. obs.*

### **Gramineae**

*Anisantha diandra* (Roth) Tzvelev – 25a, 16.6.1998, *Bal.* 73b; 40c, 18.5.2002, *Bal.* 848.  
*Anisantha tectorum* (L.) Nevski – 40a, 7.5.2002, *Bal.* 706; 1a, 5.5.2005, *Bal.* 1714; 8b, 14.4.2007, *Bal.* 3187.  
*Anthoxanthum odoratum* L. subsp. *odoratum* – 1a, 10.5.2003, *Bal.* 1391; 1e, 5.5.2005, *Bal.* 1732a; 35a, 15.5.2007, *Bal.* 3726.  
*Arrhenatherum palaestinum* Boiss. subsp. *palaestinum* – 4a, 7.5.2002, *Bal.* 681; 39c, 25.4.2007, *Bal.* 3466; 1e, 28.4.2007, *Bal.* 3496.

[*Arundo donax* L.] – 37b, 14.10.2006, *Bal.* 2745; 18b, 3.3.2009, *Bal. obs.*; 16b, 3.3.2009, *Bal. obs.*  
*Avena sterilis* subsp. *ludoviciana* (Durieu) Gillet & Magne – 8b, 25.6.1998, *Bal.* 164; 14c, 19.4.2001, *Bal.* 214; 63a, 21.4.2007, *Bal.* 3373.  
*Brachypodium glaucovirens* (Murb.) Sagorski – 11a, 25.6.2002, *Bal.* 1002; 35a, 12.7.2007, *Bal.* 4008. – This seems to be the first record of this species from Attiki.  
*Brachypodium sylvaticum* (Huds.) P. Beauv. – 24a, 15.6.2003, *Bal.* 1565.  
*Bromus alopecuroides* Poir. – 37b, 31.5.2003, *Bal.* 1502.  
*Bromus commutatus* subsp. *neglectus* (Parl.) P. M. Sm. – 37b, 31.5.2003, *Bal.* 1504.  
*Bromus hordeaceus* subsp. *mediterraneus* H. Scholz – 33b, 15.5.2007, *Bal.* 3701; 59c, 21.4.2007, *Bal.* 3347.  
*Catapodium rigidum* (L.) C.E. Hubb. subsp. *rigidum* – 14c, 21.6.1998, *Bal.* 91; 13, 11.5.2002, *Bal.* 755; 59b, 21.4.2007, *Bal.* 3356.  
*Dasyphyrum villosum* (L.) P. Candargy – 30a, 10.5.2003, *Bal.* 1377b.  
*Digitaria sanguinalis* (L.) Scop. – 21a, 7.9.2002, *Bal.* 1078.  
*Echinaria capitata* (L.) Desf. – 53, 23.4.2009, *Bal.* 4373.  
*Echinochloa crus-galli* (L.) P. Beauv. – 30b, 10.8.2004, *Bal.* 1645; 35b, 12.7.2007, *Bal. obs.*; 40c, 14.9.2007, *Bal. obs.*  
*[Eleusine indica]* (L.) Gaertn. – 21a, 6.9.2007, *Bal.* 4043; 29c, 26.9.2007, *Bal. obs.*; 49c, 11.8.2008, *Bal. obs.*  
*Elytrigia repens* (L.) Nevski – 31c, 18.7.2007, *Bal.* 4034.  
*Gastridium phleoides* (Nees & Meyen) C. E. Hubb. – 40a, 7.6.2003, *Bal.* 1512.  
*Narduroides salzmännii* (Boiss.) Rouy – 49a, 27.4.2003, *Bal.* 1221b (specimen in B). – This is the second record of the species for the Greek mainland where it is else known from ophiolithic substrates of Mt Gerania (Constantinidis & Yannitsaros 1996; Constantinidis 1997). Our finding in an area with marbles shows that this rare species is not restricted to serpentine areas in Greece.  
*Ochlopoa infirma* (Kunth) H. Scholz – 36, 15.5.2007, *Bal.* 3709b.  
*[Paspalum dilatatum]* Poir. – 21a, 6.11.2006, *Bal.* 2840. – This seems to be the first record of this species from Attiki.  
*[Paspalum distichum]* L. – 40c, 30.7.2002, *Bal.* 1070.  
*Phalaris brachystachys* Link – 32b, 18.5.2007, *Bal.* 3741a.  
*Phalaris coerulescens* Desf. – 31b, 19.5.2003, *Bal.* 1460.  
*Phleum subulatum* (Savi) Asch. & Graebn. subsp. *subulatum* – 43a, 7.6.2002, *Bal.* 940.  
*Polypogon monspeliensis* (L.) Desf. – 62, 17.6.2007, *Bal.* 3873a; 7a, 17.6.2007, *Bal.* 3873b.  
*Psilurus incurvus* (Gouan) Schinz & Thell. – 13, 11.5.2002, *Bal.* 755b; 60, 21.4.2007, *Bal.* 3412b; 6b, 5.5.2007, *Bal.* 3584.

[*Setaria adhaerens* (Forssk.) Chiov. var. *adhaerens*] – 50, 6.7.2002, *Bal.* 1047a; 23b, 10.8.2006, *Bal.* 2727; 21a, 6.9.2007, *Bal.* 4044b. – To our knowledge this is the first record of this taxon from Attiki.

[*Setaria adhaerens* var. *fontqueri* Caldach] – 21a, 6.9.2007, *Bal.* 4044a. – To our knowledge this is the first record of this taxon from Attiki.

[*Setaria pumila* (Poir.) Roem. & Schult.] – 33b, 19.10.2007, *Bal.* 4061. – Possibly this is the first record of this species from Attiki.

*Vulpia myuros* (L.) C. C. Gmel. – 47a, 17.5.2003, *Bal.* 1434b. – Our record confirms an old one of Haussknecht (1900).

### Iridaceae

*Crocus olivieri* J. Gay subsp. *olivieri* – 32a, 29.2.2007, *Bal.* 2924.

[*Freesia refracta* (Jacq.) Klatt] – 59a, 10.3.2007, *Bal.* 2966. – An escape of cultivation known from a few localities in Greece.

*Romulea bulbocodium* (L.) Sebast. & Mauri – 37a, 21.2.2007, *Bal.* 2893.

### Juncaceae

*Juncus bufonius* L. – 35c, 15.5.2007, *Bal.* 3709a; 35a, 15.5.2007, *Bal.* 3725; 3b, 5.5.2008, *Bal.* 4155; 19c, 9.5.2008, *Bal.* 4168.

*Juncus heldreichianus* Parl. subsp. *heldreichianus* – 44a, 9.5.2007, *Bal.* 3637; 35a, 15.5.2007, *Bal.* 3722.

*Juncus subnodulosus* Schrank – 44a, 11.7.2007, *Bal.* 3997.

### Liliaceae

*Allium chamaespathum* Boiss. – 52d, 23.9.2006, *Bal.* 2737.

*Allium* cf. *flavum* subsp. *tauricum* (Rchb.) Stearn – 40a, 26.11.2001, *Bal.* 319.

*Allium hymettium* Boiss. & Heldr. – 1c, 22.6.2007, *Bal.* 3936.

*Allium pallens* L. subsp. *pallens* – 30c, 11.7.2002, *Bal.* 1063; 63a, 17.6.2007, *Bal.* 3871; 32b, 30.6.2007, *Bal.* 3960.

*Allium paniculatum* L. s.l. – 2a, 7.6.2003, *Bal.* 1514; 27a, 15.6.2003, *Bal.* 1556; 23a, 9.6.2007, *Bal.* 3800; 52a, 12.6.2007, *Bal.* 3822.

*Allium stamineum* Boiss. – 2a, 27.6.2002, *Bal.* 1044b.

*Colchicum atticum* Spruner – 12, 18.11.2006, *Bal.* 2854. – The nomenclature follows Persson (2007).

[*Muscari armeniacum* Baker] – 30a, 7.4.2003, *Bal.* 1133. – This species is frequently cultivated as an ornamental. Although it is native in some parts of Greece, the small size of its population, the absence of other records from Attiki and the proximity of the above mentioned locality to an inhabited area make us to consider it as an escape of cultivation.

*Ornithogalum narbonense* L. – 49a, 27.4.2003, *Bal.* 1217.

*Prospero autumnale* (L.) Salisb. – 39a, 14.10.2006, *Bal.* 2755; 46b, 20.10.2006, *Bal.* 2775; 19b, 27.10.2006, *Bal.* 2815; 47a, 17.11.2006, *Bal. obs.*; 49a, 17.11.

2006, *Bal. obs.*; 55b, 17.11.2006, *Bal. obs.* – The nomenclature of this taxon follows Speta (1982).

### Orchidaceae

*Ophrys scolopax* subsp. *heldreichii* (Schltr.) E. Nelson – 64, 14.4.2008, *Bal.* 4100.

*Orchis lactea* Poir. – 47a, 7.2.2007, *Bal.* 2869; 52a, 14.2.2007, *Bal. phot.*; 53, 15.2.2007, *Bal. obs.*

*Platanthera chlorantha* (Custer) Rchb. – 1b, 23.5.2008, *Bal.* 4249. – As far as we know this is the first record of this taxon from Attiki.

*Spiranthes spiralis* (L.) Chevall. – 40b, 23.10.1977, *Y* 6203; 46c, 20.10.2006, *Bal.* 2781; 17b, 27.10.2006, *Bal.* 2814; 47a, 17.11.2006, *Bal. obs.*; 55b, 31.10.2007, *Bal. obs.* – This species was first reported from the area of Nea Makri in the phytosociological tables of Hermjakob (1977). Our records confirm its presence in Mt Pendelikon.

### Typhaceae

*Typha latifolia* L. – 6c, 8.5.2003, *Bal.* 1358; 45a, 9.5.2007, *Bal. obs.*

### Acknowledgements

We would like to thank the following persons for determining or confirming the determination of specimens of our collections from Mt Pendelikon: Assoc. Prof. R. Artelari (Patras – *Paronychia*), Prof. F. Ehrendorfer (Vienna – *Rubiaceae*), Ass. Prof. O. Georgiou (Patras – *Anacyclus*, *Anthemis*, *Cota*), P. Lassen (Lund – *Leguminosae*), Prof. H. Scholz (Berlin – *Gramineae*), Prof. S. Snogerup (Lund – *Onagraceae*, *Polygonaceae*, *Erysimum*, *Juncus*), Prof. D. Tzanoudakis (Patras – *Allium*) and Prof. G. Wagenitz (Göttingen – *Filago*). We also thank Prof. W. Greuter for the specimen of *Linum grandiflorum* and information on it, Assoc. Prof. K. Tan (Copenhagen) for the help in the study of *Iberis saxatilis*, Prof. A. Strid (Copenhagen) for providing us with data from the “Flora Hellenica” database, bibliographic information and criticism and Dr T. Raus (Berlin) for his valuable comments and suggestions on a first draft of the manuscript.

### References

- Bagnouls F. & Gaussen H. 1957: Les climats biologiques et leur classification. – *Ann. Géogr.* **66**: 193–220.
- Baliouis E. & Yannitsaros A. 2009: I chlorida tou Pendelikou orous [The flora of Mount Pendeliko]. – Pp. 121 in: Anon. (ed.), Abstracts of 11th Scientific Congress of the Hellenic Botanical Society, Athens, Greece, 8–11 October 2009. – Athens: Hellenic Botanical Society.
- Bergmeier E. 1988: Floristic notes on the Kato Olimbos area (NE Thessaly, Greece). – *Willdenowia* **17**: 37–58.
- Bothmer R. von 1967: Intraspecific variation in *Clinopodium vulgare* L. (*Labiatae*). – *Bot. Not.* **120**: 202–208.

- Constantinidis T. 1997: I chlorida kai i vlastisi ton oreon Gerania, Pateras kai Kitheron [The flora and vegetation of the mountains Gerania, Pateras and Kitheron (SE Sterea Ellas, Greece)]. – PhD Thesis, Athens.
- Constantinidis T. & Yannitsaros A. 1996: A floristic report of mountains Gerania, Pateras, Kitheron and Pastera (Sterea Ellas, Greece). – *Candollea* **51**: 303–322.
- Cullen J. 1965: *Malcolmia* R. Br. – Pp. 460–462 in: Davis P. H. (ed.), *Flora of Turkey and the East Aegean Islands* **1**. – Edinburgh: Edinburgh University.
- Damanakis M. & Scholz H. 1990: Phytogeographical notes on the *Poaceae* of Greece. – *Willdenowia* **19**: 413–423.
- Davis A. P. & Jury S. L. 1990: A taxonomic review of *Iris* L. series *Unguiculares* (Diels) Lawrence. – *Bot. J. Linn. Soc.* **103**: 281–300.
- Davis P. H. (ed.) 1965–85: *Flora of Turkey and the East Aegean Islands* **1–9**. – Edinburgh: Edinburgh University.
- Dardioti A. 2005: Biosistimatiki meleti tis omadas *Satureja montana* L. stin Ellada [Biosystematic study of *Satureja montana* L. group in Greece]. – PhD Thesis, Thessaloniki.
- Diapoulis C. A. 1958: Apo tin chlorida tis Parnithos. – *To Vouno, Noemvrios-Dekemvrios* **1958**: 163–188.
- Dirmenci T. 2005: A new record for the flora of Turkey: *Iberis saxatilis* L. (*Brassicaceae*). – *Turk. J. Bot.* **29**: 471–474.
- Emberger L. 1955: Une classification biogéographique des climats. – *Recueil Trav. Lab. Bot. Geol. Zool. Univ. Fac. Sci. Montpellier* **7**: 3.43.
- Emberger L. 1959: Orientation actuelle au service de la C. G. V. de la cartographie physiologique appliqué. – *Bull. Serv. Carte Phytogéogr., Ser. B*, **4(2)**.
- Formánek E. 1898: Beitrag zur Flora von Griechenland. – *Deutsche Bot. Monatsschr.* **16**: 77–81.
- Georgiou O. 2002: *Malcolmia* R. Br. – Pp. 156–165 in: Strid A. & Tan K. (ed.), *Flora hellenica* **2**. – Ruggell: Gantner.
- Greuter W. 1995: Studies in Greek *Caryophylloideae*: *Agrostemma*, *Silene* and *Vaccaria*. – *Willdenowia* **25**: 105–142.
- Greuter W., Burdet H. M. & Long G. (ed.) 1984, 1986, 1989: *Med-Checklist* **1, 3, 4**. – Genève: Conservatoire et Jardin botaniques & Berlin: Botanischer Garten und Botanisches Museum.
- Greuter W. & Raab-Straube E. von (ed.) 2008: *Med-Checklist* **2**. – Palermo: OPTIMA.
- Halácsy E. de 1900–04: *Conspectus florae graecae* **1–3**. – Lipsiae: Engelmann.
- Halácsy E. de 1908: *Supplementum conspectus florae graecae*. – Lipsiae: Engelmann.
- Halácsy E. de 1912: *Supplementum secundum conspectus florae graecae*. – *Magyar Bot. Lapok*. **11**: 114–202.
- Hausknecht C. 1893, 1894, 1896, 1898, 1900: *Symblae ad floram graecam. Aufzählung der im Sommer 1885 in Griechenland gesammelten Pflanzen*. – Downloaded From: <https://bioone.org/journals/Willdenowia> on 25 Apr 2024  
Terms of Use: <https://bioone.org/terms-of-use>
- Mitth. Thüring. Bot. Vereins, ser. 2, **3–4**: 96–116; **5**: 41–126; **8**: 43–54, **11**: 30–65, **13/14**: 18–77.
- Hermjakob G. 1969: Orchideen in Attika. – *Festschr. Deutsch. Schule Athen* **1969**: 89–108.
- Hermjakob G. 1977: Die aktuelle und potentielle natürliche Vegetation Attikas. – Münster: Diss., Westf. Wilhelms-Univ.
- IGME 2001: Geological map of Greece. Kifissia sheet; scale 1: 50000. – Athens: Institute of Geology and Mineralogy.
- Kent H. D. 1997: The correct authority for Lesser Chickweed, *Stellaria pallida* (*Caryophyllaceae*). – *Watsonia* **21**: 364.
- Kirkbride J. H. Jr. 1995: (1165) Proposal to reject the name *Lotus glaber* Mill. (*Leguminosae*). – *Taxon* **44**: 423–424.
- Krämer E. & Krämer K. 1983: Beiträge zur Orchideenflora der Provinz Attika (Griechenland). – *Mitteilungsbl. Arbeitskreis Heimische Orchid. Baden-Württemberg* **15**: 541–558.
- Kull U. 1982: Grosse Botanische Exkursion der Universität Stuttgart. Athen – Kreta. 22.3.1981 bis 12.4. 1981. Pflanzenliste. – Mimeographed.
- Murbeck S. 1933: Monographie der Gattung *Verbascum*. – *Acta Univ. Lund* **229(2)**.
- Patzak A. W. 1958: Revision der Gattung *Ballota* Section *Ballota*. – *Ann. Naturhist. Mus. Wien* **62**: 57–86.
- Pearce R. N. 2006: John Stuart Mill's botanical collections from Greece (a private passion). – *Phytol. Balcan.* **12**: 149–164.
- Persson K. 1998: Comments on some tessellated *Colchicum* species in the East Mediterranean area. – *Candollea* **53**: 399–418.
- Persson K. 2007: Nomenclatural synopsis of the genus *Colchicum* (*Colchicaceae*), with some new species and combinations. – *Bot. Jahrb. Syst.* **127**: 165–242.
- Polatschek A. & Snogerup S. 2002: *Erysimum* L. – Pp. 130–152 in: Strid A. & Tan K. (ed.), *Flora hellenica* **2**. – Ruggell: Gantner.
- Rikli M. & Rübel E. 1923: Über Flora und Vegetation von Kreta und Griechenland. – *Vierteljahrsschr. Naturf. Ges. Zürich* **68**: 103–227.
- Sarlis G. P. 1994: Contribution to the study of the flora of Attica (Greece). – *Lagascalia* **17**: 229–256.
- Sauvage C. 1963: Le quotient pluviothermique d'Emberger, son utilisation et la representation géographique de ses variations au Maroc. – *Ann. Phys. Globe Météorol. Inst. Sci. Chérif*. **20**: 11–23.
- Schuler A. 2007: Contribution to the flora of northern and central Greece. – *Willdenowia* **37**: 229–241.
- Slageren M. W. van 1994: Wild wheats: A monograph of *Aegilops* L. and *Amblyopyrum* (Jaub. & Spach) Eig (*Poaceae*). – Wageningen Agric. Univ. Pap. **94-7**.
- Snogerup S. & Snogerup B. 2001: *Bupleurum* L. (*Umbelliferae*) in Europe 1. The annuals, B. sect. *Bupleurum* and sect. *Aristata*. – *Willdenowia* **31**: 205–308.
- Speta F. 1982: Die Gattungen *Scilla* L. s.str. und *Pros-*



- pero* Salisb. im Pannonischen Raum. – Veröff. Int. Clusius-Forschungsges. Güssing **5**: 1–19.
- Stearn W. T. 1986: The Greek species of *Symphytum* (*Boeraginaceae*). – Ann. Mus. Goulandris **7**: 175–220.
- Strid A. (ed.) 1986: Mountain flora of Greece **1**. – Cambridge: Cambridge University.
- Strid A. & Tan K. (ed.) 1991: Mountain flora of Greece **2**. – Edinburgh: Edinburgh University.
- Strid A. & Tan K. (ed.) 1997: Flora hellenica **1**. – Königstein: Koeltz.
- Strid A. & Tan K. (ed.) 2002: Flora hellenica **2**. – Ruggell: Gantner.
- Tan K. 1997: *Beta* L. – Pp. 110–112 in: Strid A. & Tan K. (ed.), Flora hellenica **1**. – Königstein: Koeltz.
- Tan K. 2002: *Iberis* L. – Pp. 265–268 in: Strid A. & Tan K. (ed.), Flora hellenica **2**. – Ruggell: Gantner.
- Theocharopoulos M. & Georgiadis T. 1984: Contribution à l'étude de la végétation de l'Attique orientale (Nea Makri) en Grèce. (Prise en compte des impacts urbains et touristiques). – Ecol. Medit. **10**: 133–157.
- Tutin T. G. 1968: *Johrenia* DC. – Pp. 358 in: Tutin T. G., Heywood V. H., Burges N. A., Moore D. M., Valentine D. H., Walters S. M. & Webb D. A. (ed.), Flora europaea **2**. – Cambridge: Cambridge University.
- Tutin T. G., Heywood V. H., Burges N. A., Moore D. M., Valentine D. H., Walters S. M. & Webb D. A. (ed.) 1968–1980: Flora europaea **2–5**. – Cambridge: Cambridge University.
- Tutin T. G., Burges N. A., Chater A. O., Edmondson J. R., Heywood V. H., Moore D. M., Valentine D. H., Walters S. M. & Webb D. A. (ed.) 1993: Flora europaea, ed. 2, **1**. – Cambridge: Cambridge University.
- Valdés B. & Scholz H. 2006: The Euro+Med treatment of *Gramineae* – a generic synopsis and some new names. – [Willdenowia](https://doi.org/10.1007/s11274-006-9111-1) **36**: 657–669.
- Vierhapper F. 1914: Beiträge zur Kenntnis der Flora Griechenlands. Bearbeitung der anlässlich der zweiten Wiener Universitätsreise im April 1911 in Griechenland gesammelten Pflanzen. A. *Anthophyta* und *Pteridophyta*. – Verh. K. K. Zool.-Bot. Ges. Wien **64**: 239–270.
- Vierhapper F. 1919: Beiträge zur Kenntnis der Flora Griechenlands. Bearbeitung der anlässlich der zweiten Wiener Universitätsreise im April 1911 in Griechenland gesammelten Pflanzen. A. *Anthophyta* und *Pteridophyta* II–IV. – Verh. Zool.-Bot. Ges. Wien **69**: 102–312.
- Wagenitz G. 1970: Die Gattung *Filago* L. s.l. (*Compositae-Inuleae*) in der Ägäis. – Willdenowia **6**: 115–138.
- Yannitsaros A. 1973: Notes on the ecology and distribution of *Capsella grandiflora* (Fauche & Chaub.) Boiss. – Biol. Gallo-Hellen. **4**: 163–168.
- Yannitsaros A. 2004: *Koelreuteria paniculata* Laxm. – P. 76 in: Greuter W. & Raus Th. (ed.), Med-Checklist Notulae, 22. – [Willdenowia](https://doi.org/10.1007/s11274-004-9111-1) **34**: 71–80.
- Yannitsaros A. & Economidou E. 1974: Studies on the adventive flora of Greece. I. General remarks on some recently introduced taxa. – Candollea **29**: 111–119.
- Zahariadi C. 1973: Quelques taxons rares ou nouvellement découverts de la flore de la Grèce. – Ann. Mus. Goulandris **1**: 165–183.
- Zerlantis C. C. 1965: *Simvoli is tin chlorida tou Imittou*. – Athine: Privately published.
- Zimmer B. 1991: Remarks on the Greek cheilanthoid ferns. – Bot. Chron. **10**: 221–237.
- Zohary M. & Heller D. 1984: The genus *Trifolium*. – Jerusalem: Israel Academy of Sciences and Humanities.