

Checklist of macrofungi associated with the key-plant element (*Alnus glutinosa*) existing in the priority habitat 91E0*

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Summary

In the frame of the Deliverable titled “Checklist of macrofungi associated with the key-plant element (*A. glutinosa*) existing in the priority habitat 91E0*”, the work team of the Agricultural University of Athens (AUA, Laboratory of General and Agricultural Microbiology) has compiled all available data deriving from both past and recent studies on the diversity of macrofungi present in the alder forests of Andros. Hence, this checklist is complete and fully updated (until the time of writing, 31 March 2019) and includes relevant literature information deriving from previous AUA’s published research as well as results based on biological material collected after the start of the LIFE Andros Park project. In total, 13 forays were performed in selected alder sites of the island during 2017-2018, and mushrooms associated with this key-plant element were collected and transferred to the laboratory for further study, including examination of morphoanatomical features and molecular (DNA sequencing) analysis. As a result, 38 species were added to the 58 spp. already known from past studies; among them, 21 constitute new records for the Andros mycobiota while 11 are new national records including all alder-associated ECM species. All species are hereby presented on the basis of their trophic/ecological preferences, while the collection dates and localities are also noted for the findings.

Περίληψη

Στα πλαίσια του Παραδοτέου με τίτλο “Checklist of macrofungi associated with the key-plant element (*A. glutinosa*) existing in the priority habitat 91E0*”, η ομάδα έργου του Γεωπονικού Πανεπιστημίου Αθηνών (ΓΠΑ, Εργαστήριο Γενικής και Γεωργικής Μικροβιολογίας) συγκέντρωσε και επεξεργάστηκε όλα τα διαθέσιμα στοιχεία από παρελθούσες και πρόσφατες μελέτες που αφορούν την ποικιλότητα των μακρομυκήτων στα δάση σιλήθρων της Άνδρου. Έτσι ο παρόν κατάλογος είναι πλήρης και ενημερωμένος μέχρι την ημερομηνία σύνταξης του (31 Μαρτίου 2019) περιλαμβάνοντας σχετική βιβλιογραφική πληροφορία προερχόμενη από προηγούμενες δημοσιευμένες ερευνητικές εργασίες της ομάδας έργου όπως και αποτελέσματα από βιολογικό υλικό που συλλέχθηκε μετά την έναρξη του έργου LIFE Andros Park. Συνολικά πραγματοποιήθηκαν 13 εξορμήσεις σε επιλεγμένες περιοχές του νησιού με σιλήθρα κατά τα έτη 2017-2018, συλλέχθηκαν μανιτάρια από μύκητες που σχετίζονται με το συγκεκριμένο φυτικό είδος, τα οποία μεταφέρθηκαν στο εργαστήριο για περαιτέρω μελέτη που συμπεριελάμβανε εξέταση μορφολογικών χαρακτηριστικών και μοριακή ανάλυση (αλληλούχηση τμημάτων DNA). Έτσι ταυτοποιήθηκαν 38 είδη επιπλέον των 58 ειδών, η παρουσία των οποίων ήταν ήδη γνωστή από προηγούμενες μελέτες. Από αυτά, τα 21 αποτελούν νέες καταγραφές για την Άνδρο, ενώ 11 συνιστούν πρώτες καταγραφές στην Ελλάδα και περιλαμβάνουν όλα τα εκτομυκορριζικά είδη που εντοπίστηκαν. Όλες οι καταγραφές παρουσιάζονται αναλυτικά στον παρόν κατάλογο με βάση τις τροφικές-οικολογικές προτιμήσεις τους, ενώ παράλληλα αναφέρονται οι ημερομηνίες και οι ακριβείς θέσεις συλλογής τους.

Introduction

Andros is the only island of the Aegean Archipelago whose fungal diversity has been inventoried for more than 20 years (pertinent research started in 1995 and is still in progress). Andros is the Cyclades island with the highest amount of rainfalls and the only one with several rivulets of constant flow. Since mushrooms are well known to be positively affected by wet conditions (i.e. high soil moisture and air humidity), river banks, springs and alluvial forests were among the main targets of this study. Such biotopes include the priority habitat 91E0*; alder (*Alnus glutinosa* L.) trees host a remarkably rich and interesting fungal diversity. Hence, many species of macrofungi have been recorded and part of the findings were published in scientific journals and congress proceedings, e.g. in a preliminary study on macrofungi of *Alnus glutinosa* habitats in Greece (Dimou et. al. 2002), and in the first checklist of mushrooms (i.e. agaricoid, boletoid and gasteroid) (Polemis et. al 2012), of wood-inhabiting jelly fungi (heterobasidiomycetes) and of polypores of the family Hymenochaetaceae (Polemis et. al. 2013, 2016) in Andros island.

This present checklist includes all macrofungi that are directly associated with *Alnus glutinosa* trees occurring in the priority habitat 91E0* of Andros island, such as the ectomycorrhizal (ECM) species which establish highly specialized obligative relationships with alders as well as the saprotrophic or parasitic fungi which grow on and degrade/deteriorate their living or dead plant wood (saproxylic). However, within the priority habitat and the adjacent areas of the alluvial valleys and their estuaries, many more interesting species were found and are listed here either because they were associated with alder trees or because they constitute the fungal part of biodiversity in the alluvial valleys of Vori and Lefka (i.e. of prominent importance as regards conservation and restoration actions planned in the frame of LIFE Andros Park project). Therefore, this checklist constitutes an updated compilation of existing knowledge regarding the occurrence of macrofungi in the priority habitat 91E0*, and includes the results of a long-term investigation enriched with recent findings deriving from work performed exclusively on the target areas of the project.

Methodology

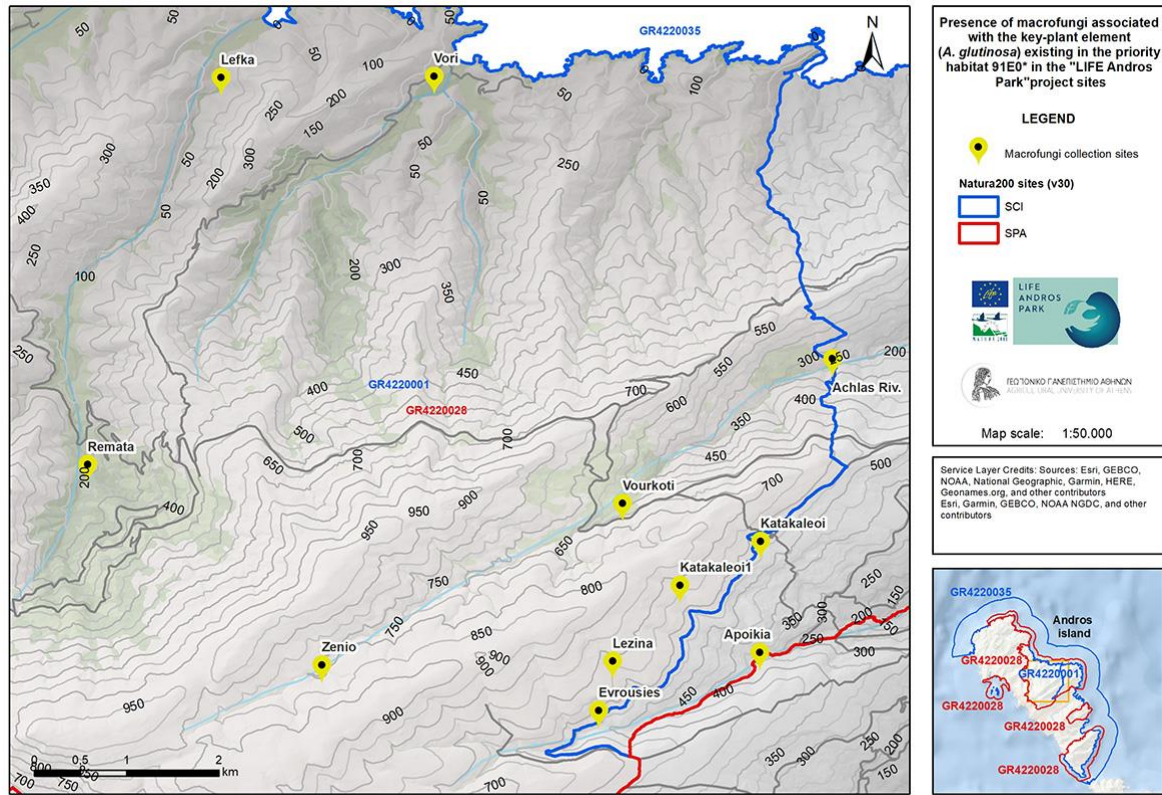


Fig. 1. Map depicting the sampling sites of macrofungi in Andros island.

The species listed this inventory were collected from 11 sampling sites (Fig. 1), covering almost the entire area of *Alnus glutinosa* distribution in Andros island. Most of them appear within the SCI (GR4220001) from sea-level to an altitude of ca. 800 m a.s.l.

In the frame of Preparatory Action A.1 “Determination of vegetation structure and plant (plus associated fungal) species diversity in priority terrestrial habitat (91E0*)” all sites were investigated. In particular, 13 forays were performed during 2017-2018 as follows:

- i. 11 November 2017 in mountainous stands of Zenio at 800 m a.s.l.
- ii. 12 November 2017 in mountainous stands over Lezina and Katakalei-1 at 600-700 m a.s.l.
- iii. 14 November 2017 in mountainous stands of Evrousies at 500-600 m a.s.l.
- iv. 15 November 2017 in mountainous stands over Vourkoti at 600 m a.s.l.
- v. 24 November 2017 in the alluvial valleys of Vori and Lefka at 0-20 m a.s.l.
- vi. 25 November 2017 in the alluvial valley of Vori.
- vii. 28 November 2017 in Achlas river at 250 m a.s.l.

- viii. 22 February 2018 additional collections in the alluvial valley of Vori.
- ix. 1 November 2018 additional collections in the mountainous stands of Zenio.
- x. 2 November 2018 additional collections in the mountainous stands over Vourkoti.
- xi. 4 November 2018 around the springs of Katakalei village at 550 m a.s.l.
- xii. 5 November 2018 additional collections in the alluvial valley of Vori.
- xiii. 23 November 2018 additional collections in Vourkoti, Achlas river and Vori.

More than 150 specimens were collected and further subjected to morphoanatomical and molecular analyses. Morphological studies included in situ photography and description of macroscopical features of taxonomic interest. Ex-situ examination of specimens was performed at the Laboratory of General and Agricultural University of Athens (LGAM-AUA), and involved observations of taxonomically important microscopical morphoanatomical features under optical microscope as well as DNA extraction, PCR and sequencing. All collected specimens were air-dried and vouchers are kept in the Fungarium of LGAM-AUA (ACAM-AUA in Index Herbariorum). Determination of the species studied in the frame of the Preparatory Action A.1 and presented here, was performed through the implementation of both classic taxonomic approaches and phylogenetic analyses according to pertinent methodologies (Polemis et al. 2012, 2013, 2016, 2019, Zervakis et al. 2014).

Results – Species Checklist

A. Ectomycorrhizal Macrofungi



Gyrodon lividus, *Lactarius obscuratus*, *Paxillus olivellus* and *Naucoria escharoides*
(from top left clockwise)

1. ***Gyrodon lividus*** (Bull.) Sacc.

Specimens examined. **Vori**: 1 November 2014 (EP.14-A1263) and 24 November 2017 (EP.17-A1428).

2. ***Inocybe calospora*** Quél.

Specimens examined. **Vourkoti**: 2 November 2018 (EP.18-A1570). First record of this species in Greece (Polemis et al. unpublished results).

3. ***Lactarius obscuratus*** (Lasch) Fr.

Specimens examined. **Zenio**: 11 November 2017 (EP.17-A1347) and 1 November 2018 (EP.18-A1566). **Vourkoti**: 2 November 2018 (EP.18-A1576). First record of this species in Greece (Polemis et al. 2019).

4. *Naucoria celluloderma* P.D. Orton

Specimens examined. **Zenio**: 11 November 2017 (EP.17-A1344). First record of this species in Greece (Polemis et al. 2019).

5. *Naucoria escharioides* (Fr.) P. Kumm.

Specimens examined. **Zenio**: 11 November 2017 (EP.17-A1346) and 1 November 2018, (EP.18-A1561). **Vori**: 22 February 2018 (EP.18-A1547). **Vourkoti**: 2 November 2018 (EP.18-A1571). First record of this species in Greece (Polemis et al. 2019).

6. *Naucoria luteolofibrillosa* (Kühner) Kühner & Romagn.

Specimens examined. **Vori**: 24 November 2017 (EP.17-A1424). First record of this species in Greece (Polemis et al. unpublished results).

7. *Naucoria scolecina* (Fr.) Quél.

Specimens examined. **Evrousies**: 15 November 2004, (EP.04-A679).

8. *Naucoria striatula* P.D. Orton

Specimens examined. **Evrousies**: 15 November 2004, (EP.04-A679).

9. *Naucoria subconspersa* Kühner ex P.D. Orton

Specimens examined. **Evrousies**: 15 November 2004, (EP.04-A678). **Lezina**: 12 November 2017, (EP.17-A1374). **Vourkoti**: 12 November 2017. (EP.17-A1392) and 2 November 2018 (EP.18-A1572). **Vori**: 24 November 2017 (EP.17-A1421). **Katakalaioi**: 4 November 2018 (EP.18-A1585). First record of this species in Greece (Polemis et al. 2019).

10. *Paxillus olivellus* P.-A. Moreau, J.-P. Chaumeton, Gryta & Jarge

Specimens examined. **Achlas river**: 13 November 1995 and 24 October 2004, (EP.95-A028 & EP.04-A673). **Evrousies**: 22 September 2002, (EP.02-A353) and 23 November 2017 (EP.17-A1396). **Remata**: 23 October 2004, (EP.04-A670). **Vori**: 1 November 2014, (EP.14-A1266). 24 November 2017 (EP.18-A1426) and 22 February 2018, (EP.18-A1552). **Zenio**: 11 November 2017 (EP.17-A1348). **Vourkoti**: 2 November 2018 (EP.18-A1583). First record of the species in Greece (Polemis et al. 2019). Previously reported as '*P. rubicundulus*' (Dimou et al. 2002, Polemis et al. 2012).

11. *Russula pumila* Rouzeau & F. Massart

Specimens examined. **Vourkoti**: 2 November 2018 (EP.18-A1575). First record of this species in Greece (Polemis et al. 2019).

12. *Tomentella stuposa* (Link) Stalpers

Specimens examined. **Vori**: 26 April 2002 (EP.02-A327).

13. *Tomentella sublilacina* (Ellis & Holw.) Wakef.

Specimens examined. **Achlas river**: 11 October 2002 (EP.02-A452).

B. Wood-Rotting (Saprophytic) Macrofungi



Gymnopilus junonius, *Armillaria mellea* and *Ganoderma adspersum* (from top left clockwise).

1. *Abortiporus biennis* (Bull.) Singer

Specimens examined. **Vourkoti**: 2 November 2018 (EP.18-A1582).

2. *Armillaria gallica* Marxm. & Roma

Specimens examined. **Vori**: 24 November 2017 (EP.17-A1443).

3. *Armillaria mellea* (Vahl) P. Kumm.

Specimens examined. **Remata**: 12 November 1995 (EP.95-A021). **Vourkoti**: 2 November 2018 (EP.18-A1584).

4. *Auricularia auricula-judae* (Bull.) Quél.

Specimens examined. **Vori**: 22 February 2018 (EP.18-A1539).

5. *Botryobasidium candicans* J. Erikss.

Specimens examined. **Vori**: 26 December 2001 (EP.01-A275), 5 January 2011 (EP.11-A1023) and 24 November 2017 (EP.17-A1434).

6. *Brevicellicium olivascens* (Bres.) K.H. Larss. & Hjortstam
Specimens examined. **Zenio**: 11 November 2017 (EP.17-A1352).
7. *Calocera cornea* (Batsch) Fr.
Specimens examined. **Vori**: 24 November 2017 (EP.17-A1440).
8. *Ceriporia purpurea* (Fr.) Donk
Specimens examined. **Zenio**: 11 November 2017 (EP.17-A1350, EP.17-A1363).
9. *Chondrostereum purpureum* (Pers.) Pouzar
Specimens examined. **Achlas river**: 26 November 2017 (EP.17-A1467).
10. *Coniophora puteana* (Schumach.) P. Karst.
Specimens examined. **Vori**: 5 January 2011 (EP.11-A1017) and 24 November 2017 (EP.17-A1440). **Lefka**: 24 November 2017 (EP.17-A1441).
11. *Coprinellus disseminatus* (Pers.) J.E. Lange
Specimens examined. **Vori**: 26 December 2001 (EP.01-A260).
12. *Coriolopsis gallica* (Fr.) Ryvarden
Specimens examined. **Vori**: 5 January 2011 (EP.11-A1016).
13. *Crepidotus luteolus* (Lambotte) Sacc.
Specimens examined. **Vori**: 26 December 2001 (EP.01-A268).
14. *Exidiopsis galzinii* (L.S. Olive) K. Wells
Specimens examined. **Achlas river**: 11 October 2002 (EP.02-A448).
15. *Fibroporia citrina* (Bernicchia & Ryvarden) Bernicchia & Ryvarden
Specimens examined. **Zenio**: 11 November 2017 (EP.17-A1358).
16. *Fuscoporia torulosa* (Pers.) T. Wagner & M. Fisch.

Specimens examined. **Evrousies**: 15 October 2004 (EP.04-A668). **Achlas river**: 24 October 2004 (EP.04-A672) and 26 November 2017 (EP.17-A1447).

17. *Ganoderma adpersum* (Schulzer) Donk

Specimens examined. **Vori**: 1 November 2014 (EP.11-A1264) and 24 November 2017 (EP.17-A1422).

18. *Gymnopilus junonius* (Fr.) P.D. Orton.

Specimens examined. **Apoikia**: 15 and 24 October 2004 (EP.04-A667, EP.04-A825). **Evrousies**: 14 November 2017 (EP.17-A1385). **Vori**: 5 November 2018 (EP.18-A1587).

19. *Gymnopilus picreus* (Pers.) P. Karst.

Specimens examined. **Apoikia**: 3 November 2003 (EP.03-A659).

20. *Gymnopus brassicolens* (Romagn.) Antonín & Noordel.

Specimens examined. **Vori**: 24 November 2017 (EP.17-A1425).

21. *Hyphoderma medioburiense* (Burt) Donk

Specimens examined. **Katakalei-1**: 12 November 2017 (EP.17-A1381).

22. *Hyphoderma setigerum* (Fr.) Donk

Specimens examined. **Vori**: 29 April 2002 (EP.02-A332). **Zenio**: 11 November 2017 (EP.17-A1357).

23. *Hyphodermella corrugata* (Fr.) J. Erikss. & Ryvarde

Specimens examined. **Evrousies**: 23 November 2017 (EP.17-A1398). First record of this species in Greece (Polemis et al. unpublished results).

24. *Marasmius rotula* (Scop.) Fr.

Specimens examined. **Evrousies**: 22 September 2002 (EP.02-A360).

25. *Merulius tremellosus* Schrad.

Specimens examined. **Vori**: 29 April 2002 (EP.02-A323). **Evrousies**: 15 November 2004 (EP.04-A680).

26. *Mycena haematopus* (Pers.) P. Kumm.
Specimens examined. **Vori**: 26 December 2001 (EP.01-A262).
27. *Mycena pseudocorticola* Kühner
Specimens examined. **Achlas River**: 26 November 2017 (EP.17-A1449). First record of this species in Greece (Polemis et al. 2018).
28. *Mycoacia aurea* (Fr.) J. Erikss. & Ryvarden
Specimens examined. **Vori**: 29 April 2002 (EP.02-A325) and 5 January 2011 (EP.11-A1026).
29. *Mycoaciella bispora* (Stalpers) Erikss. & Ryvarden
Specimens examined. **Vori**: 26 December 2001 (EP.01-A272) and 29 April 2002 (EP.02-A330).
30. *Peniophora rufomarginata* (Pers.) Bourdot & Galzin
Specimens examined. **Vori**: 22 February 2018 (EP.18-A1549). First record of this species in Greece (Polemis et al. unpublished results).
31. *Peniophora tamaricicola* Boidin & Malenç.
Specimens examined. **Vori**: 29 April 2002 (EP.02-A329).
32. *Peniophorella praetermissa* (P. Karst.) K.H. Larss.
Specimens examined. **Vori**: 26 December 2001 (EP.01-A276). **Zenio**: 11 November 2017 (EP.17-A1354).
33. *Perenniporia ochroleuca* (Berk.) Ryvarden
Specimens examined. **Achlas river**: 11 October 2002 (EP.02-A461).
34. *Phanerochaete sordida* (P. Karst.) J. Erikss. & Ryvarden
Specimens examined. **Vori**: 26 December 2001 (EP.01-A273).
35. *Phellinus lundellii* Niemelä
Specimens examined. **Zenio**: 13 April 2017 (EP.17-A1342).

36. *Phlebia rufa* (Pers.) M.P. Christ.
Specimens examined. **Zenio**: 11 November 2017 (EP.17-A1354).
37. *Phlebiopsis ravenelii* (Cooke) Hjortstam
Specimens examined. **Vori**: 5 January 2011 (EP.11-A1018).
38. *Phloeomana speirea* (Fr.) Redhead
Specimens examined. **Lezina**: 12 November 2017 (EP.17-A1376).
39. *Pilatotrama ljubarskyi* (Pilát) Zmitrovich
Specimens examined. **Vori**: 22 February 2018 (EP.18-A1551).
40. *Pleurotus ostreatus* (Jacq.) P. Kumm.
Specimens examined. **Vori**: 26 December 2001 (EP.01-A261) and 5 November 2018 (EP.18-A1586).
41. *Psathyrella candolleana* (Fr.) Maire
Specimens examined. **Achlas river**: 4 June 2002 (EP.02-A336).
42. *Radulomyces confluens* (Fr.) M.P. Christ.
Specimens examined. **Vori**: 5 January 2011 (EP.11-A1022).
43. *Steccherinum ochraceum* (Pers. ex J.F. Gmel.) Gray
Specimens examined. **Vori**: 22 February 2018 (EP.18-A1540).
44. *Stereum hirsutum* (Willd.) Pers.
Specimens examined. **Evrousies**: 23 November 2017 (EP.17-A1397). **Achlas river**: 28 November 2017 (EP.17-A1463). **Vori**: 22 February 2018 (EP.18-A1544).
45. *Trechispora farinacea* (Pers.) Liberta
Specimens examined. **Vori**: 29 April 2002 (EP.02-A328).
46. *Trametes versicolor* (L.) Lloyd

Specimens examined. **Vori:** 5 January 2011 (EP.11-A1018) and 22 February 2018 (EP.18-A1542).

47. *Vitreoporus dichrous* (Fr.) Zmitr.

Specimens examined. **Achlas River:** 11 October 2002 (EP.02-A445). **Vori:** 25 November 2017 (EP.17-A1439) and 22 February 2018 (EP.18-A1538).

48. *Xylodon raduloides* Riebesehl & Langer

Specimens examined. **Vori:** 5 January 2011 (EP.11-A1025) and 22 February 2018 (EP.18-A1543).

C. Litter and Humus Saprotrophs



Entoloma incanum (left) and *Clitocybe nebularis* (right)

1. *Clitocybe nebularis* (Batsch) P. Kumm.
Specimens examined. **Vourkoti**: 2 November 2018 (EP.18-A1580).
2. *Clitocybe phyllophila* (Pers.) P. Kumm.
Specimens examined. **Vourkoti**: 2 November 2018 (EP.18-A1579).
3. *Entoloma alnicola* Noordel. & Polemis
Specimens examined. **Evrousies**: 22 September 2002 (EP.02-A364).
4. *Entoloma incanum* (Fr.) Hesler
Specimens examined. **Evrousies**: 22 September 2002 (EP.02-A362). **Achlas river**: 24 October 2004 (EP.04-A674).
5. *Entoloma juncinum* (Kühner & Romagn.) Noordel.
Specimens examined. **Evrousies**: 22 September 2002 (EP.02-A361).
6. *Entoloma mougeotii* (Fr.) Hesler
Specimens examined. **Achlas river**: 11 October 2002 (EP.02-A446).
7. *Lepista nuda* (Bull.) Cooke
Specimens examined. **Zenio**: 1 November 2018 (EP.18-A1564).

8. *Leucopaxillus gentianeus* (Quél.) Kotl.

Specimens examined. **Zenio**: 1 November 2018 (EP.18-A1570).

9. *Paralepista flaccida* (Sowerby) Vizzini

Specimens examined. **Zenio**: 1 November 2018 (EP.18-A1563). **Vourkoti**: 2 November 2018 (EP.18-A1581).

10. *Parasola kuehneri* (Uljé & Bas) Redhead, Vilgalys & Hopple

Specimens examined. **Vori**: 22 February 2018 (EP.18-A1546).

11. *Psathyrella prona* (Fr.) Gill.

Specimens examined. **Evrousies**: 22 September 2002 (EP.02-A363).

D. Other Saprotrophs from the Alluvial-Littoral Sites of Vori and Lefka



Volvopluteus gloiocephalus (left) and *Phallus hadriani* (right)

1. *Agaricus bernardii* Quél.

Specimens examined. **Vori:** 29 April 2002 (EP.02-A334) and 17 November 2002 (EP.02-A580).

2. *Agaricus dulcidulus* Schulzer

Specimens examined. **Vori:** 17 November 2002 (EP.02-A583).

3. *Agaricus litoralis* (Wakef. & A. Pearson) Konrad & Maubl.

Specimens examined. **Vori:** 1 December 2004 (EP.04-A800).

4. *Agaricus pampeanus* Speg.

Specimens examined. **Vori:** 1 December 2004 (EP.04-A808) and 1 November 2014 (EP.14-A1265).

5. *Conocybe ambigua* Watling.

Specimens examined. **Vori:** 17 November 2002 (EP.02-A588).

6. *Conocybe graminis* Hauskn.

Specimens examined. **Vori:** 17 November 2002 (EP.02-A592).

7. *Conocybe semiglobata* (Kühner) Kühner & Watl.

Specimens examined. **Vori:** 17 November 2002 (EP.02-A587).

8. *Contumyces rosellus* (M.M. Moser) Redhead, Moncalvo, Vilgalys & Lutzoni
Specimens examined. **Vori**: 26 December 2001 (EP.01-A267).
9. *Coprinellus flocculosus* (DC.) Vilgalys, Hopple & Jacq. Johnson.
Specimens examined. **Lefka**: 24 November 2017 (EP.17-A1416).
10. *Flammulaster wieslandri* (Fr.) M.M. Moser
Specimens examined. **Vori**: 17 November 2002 (EP.02-A590).
11. *Galerina pseudocerina* A.H. Sm. & Singer
Specimens examined. **Vori**: 17 November 2002 (EP.02-A586).
12. *Gymnopilus arenophilus* A. Ortega & Esteve-Rav.
Specimens examined. **Lefka**: 24 November 2017 (EP.17-A1408). First record of this species in Greece (Polemis et al. unpublished results).
13. *Gymnopus amygdalisporus* Polemis & Noordel.
Specimens examined. **Vori**: 1 December 2004 (EP.04-A796).
14. *Gymnopus dysosmus* Polemis & Noordel.
Specimens examined. **Vori**: 1 December 2004 (EP.04-A805).
15. *Lepiota helveola* Bres.
Specimens examined. **Vori**: 17 November 2002 (EP.02-A597).
16. *Lepista nuda* (Bull.) Cooke
Specimens examined. **Lefka**: 24 November 2017 (EP.17-A1417).
17. *Leucoagaricus carneifolius* (Gillet) Wasser
Specimens examined. **Vori**: 1 December 2004 (EP.04-A801).
18. *Leucoagaricus leucothites* (Vittad.) Wasser
Specimens examined. **Vori**: 17 November 2002 (EP.02-A581).

19. *Mycena pilosella* Maas Geest.

Specimens examined. **Vori**: 1 December 2004 (EP.04-A803).

20. *Panaeolus cinctulus* (Bolton) Sacc.

Specimens examined. **Vori**: 17 November 2002 (EP.02-A589).

21. *Phallus hadriani* Vent.

Specimens examined. **Lefka**: 24 November 2017 (EP.17-A1418).

22. *Phallus impudicus* L.

Specimens examined. **Lefka**: 24 November 2017 (EP.17-A1419).

23. *Pholiotina sulcata* Arnolds & Hauskn.

Specimens examined. **Vori**: 17 November 2002 (EP.02-A585).

24. *Psathyrella almerensis* Kits van Wav.

Specimens examined. **Lefka**: 24 November 2017 (EP.17-A1409). First record of this species in Greece (Polemis et al. unpublished results).

25. *Volvopluteus gloiocephalus* (DC.) Vizzini, Contu & Justo

Specimens examined. **Lefka**: 24 November 2017 (EP.17-A1413).

Conclusions

Surveys conducted within the *Alnus glutinosa* priority habitat 91E0* of Andros island produced very interesting findings which significantly enhanced existing knowledge while they also set the basis for their future exploitation in various applied domains, e.g. development of ECM inocula to foster adaptation and growth of young alder seedlings during restoration initiatives (actually in progress in the frame of Action C2 of Life Andros Park), mushroom cultivation of selected edible/medicinal (e.g. genera *Pleurotus* and *Ganoderma*), and collection and consumption of choice wild edible species (e.g. *Lepista nuda*, *Pleurotus ostreatus*, *Volvopluteus gloiocephalus*). It is also noteworthy that prior to 2017 (when the activities of LIFE Andros Park started) the number of recorded species included six ECMs, 29 saproxylic, five litter-saprotrophs and 18 littoral species (58 in total). As a result of recent forays and subsequent studies, starting from the autumn of 2017 to the end of 2018, 38 additional species were recorded; among these 21 constitute new records for the Andros mycobiota while 11 are new national records including all alder-associated ECM species. Especially as regards the latter group, the most interesting findings were recently presented in the Congress of the Scientific Society “Mikrobiokosmos” and relevant material is attached hereby.

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