

Macrofungi from Artova (Tokat) District

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Abstract: The macrofungi specimens were collected from different localities of the Artova (Tokat) district in 2005-2006, particularly during autumn and spring. As a result of these field and laboratory studies, 39 species belonging to 21 families were identified. The species of these were four belong to Ascomycetes and 35 belong to Basidiomycetes.

Key Words: Artova, Flora, Macrofungi, Tokat, Turkey.

Tokat (Artova) Yöresi Makrofungusları

Özet: 2005-2006 yıllarında özellikle ilkbahar ve sonbahar aylarında Artova (Tokat) ilçesinin farklı lokalitelerinden makromantar örnekleri toplanmıştır. Arazi ve laboratuvar çalışmaları sonucu 21 familyaya ait 39 tür bulunmuştur. Bunlardan 4'ü Ascomycetes, 35'i Basidiomycetes sınıflarına aittir.

Anahtar kelimeler: Artova, Flora, Makromantar, Tokat, Türkiye.

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Introduction

Many taxonomic studies of the macrofungal flora of Turkey have been carried out and many others are in progress. The studies carried out on macrofungi species between 1932 and 2009 have been reviewed, and it was determined that there are approximately 1814 documented macrofungi species in Turkey (Sesli and Denchev 2009).

The Artova district was chosen as the research area for this study, because its macrofungi have not been investigated. Plant distributions and field features in Artova are very suitable for macrofungi growth. The field study was chiefly carried out in the autumn and spring.

The aim of this study was to determine macrofungi species in the research area and thus provide more data on the macrofungi flora of Turkey.

Materials and Methods

The field study was conducted primarily in spring and autumn, since during these periods the climatic conditions are most suitable for carpophore formation. Macrofungi samples were removed from

the ground with great care so as to avoid damage to the base and other parts (stipe, hymenium, etc.). Samples were placed in separate wicker containers to avoid mixing. Colour, locality, and characteristics of habitat, etc. were noted and photographed during collection. In the laboratory, morphological features and spore properties of both dry and fresh macrofungi specimens were studied and then identified according to Breitenbach and Kranzlin (1984,1995), Bresinsky and Besl (1990), Moser (1983), Phillips (1981).

All the materials were deposited at Gaziosmanpaşa University, Education Faculty, Laboratory of Arts and Science Department of Biology in Tokat.

Results

Macrofungi consisting of 39 taxa belonging to 21 families were identified. These taxa, their localities, distributions, collection dates, and fungarium numbers are given below.

(Katagorisi yazılacak) Ascomycetes

Fam. Helvellaceae

Helvella lacunosa Afzel.

Tokat: Artova-Tekneli-Kızılınış, on burnt greund.18.10.2005 Kaan 47.

Fam. Morchellaceae

Morchella conica Pers.

Tokat: Atova-Çelikli, near the river in sandy soil, 20.04.2005, Kaan 61.

Morchella esculenta (L.) Pers

Tokat: Artova-Çelikli, near the river in sandy soil, 12.04.2006, Kaan 58.

Fam. Nectriaceae

Nectria cinnabarina (Tode) Fr.

Tokat: Artova-Ağmusa, on branches of dead *Cerasus microcarpa*, 14.06.2006, Kaan 39.

Basidiomycetes

Fam. Agaricaceae

Agaricus bisporus (J.E. Lange)

Tokat: Artova-Ağmusa, in pasture, 12.06.2006, Kaan 044.

Agaricus bitorquis (Quel.) Sacc.

Tokat: Artova-Ağmusa, in pasture, 20.04.2006, Kaan 021.

Agaricus campestris L.

Tokat: Artova-Yağcımusa, in pasture, 14.09.2005, Kaan 019.

Bovista plumbea Pers.

Tokat: Artova-Yağcımusa, on short grass and pasture, 21.05.2005, Kaan 34.

Coprinus comatus (O.F. Müll.) Pers. Tokat: Artova-Bebekderesi, road side, in pasture, 02.11.2005, Kaan 045.

Cyathus olla (Batsch) Pers.

Tokat: Artova-Kızılınış, on organic debris, 14.11.2005, Kaan 053.

Lepiota cristata (Bolton) P. Kumm Tokat: Artova-Ağmusa, on soil among plant debris in garden, 21.11.2005, Kaan 029.

Lepiota konradii Huijsman ex P.D. Orton

Tokat: Artova-Tekneli, under *Quercus sp*, 18.09.2005, Kaan 007.

Macrolepiota procera (Scop.) Sing.

Tokat: Artova-Ağmusa, in open place of mixed forest, 08.10.2005, Kaan 050.

Lycoperdon pedicellatum Batsch

Tokat: Artova-Ağmusa, in rich soil in woods. 15.05.2005 Kaan 30.

Lycoperdon perlatum Pers.

Tokat: Artova-Ağmusa, woudland. 08.06.2005 Kaan 35.

Fam. Amanitaceae

Amanita vaginata (Bull.) Lam.

Tokat: Artova-Ağmusa, in deciduous wood. 10.06.2006 Kaan 103.

Fam. Boletaceae

Xerocomus subtomentasus (L. ax. Fr.) Quel.

Tokat: Artova-Tekneli, mixed wood. 13.06.2006 Kaan 065.

Fam. Diplocystidiaceae

Astraeus hygrometricus (Pers.) Morg.

Tokat: Artova-Kızıliniř, in open place of mixed forest, 05.10.2005, Kaan 25.

Fam. Cortinariaceae

Cortinarius glaucopus (Schaeff.) Fr. Tokat: Artova-Tekneli, mixed wood. 21.11.2005 Kaan 052.

Fam. Inocybaceae

Inocybe fastigiata (Schf.) Quel.

Tokat: Artova-Ađmusa, under *Quercus*, 08.06.2006, Kaan 027.

Fam. Marasmiaceae

Collybia dryophila (Bull.) P. Kumm.

Tokat: Artova-Ađmusa, in deciduous wood. 15.05.2005 Kaan 057.

Fam. Mycenaceae

Mycena rosea (Schumach.) Gramberg.

Tokat: Artova-Yađcımusa, under beech trees, 24.10.2005, Kaan 017.

Mycena leucogala (Cooke) Sacc.

Tokat: Artova-Kızıliniř, in mixed wood. 18.10.2005 Kaan 033.

Fam. Physalacriaceae

Coprinellus disseminatus (Pers.) Gray.

Tokat: Artova-Tekneli, under *Salix sp*, 18.04.2005, Kaan 015.

Coprinellus micaceus (Bull.) Fr.

Tokat: Artova-Kızıliniř, under *Salix sp*, 07.05.2006, Kaan 012.

Oudemansiella radicata (Relh. ex Fr.) Sing.

Tokat: Artova-Kızıliniř, in mixed wood. 20.10.2005 Kaan 009.

Fam. Polyporaceae

Coriolus versicolor (L.) Quél.

Tokat: Artova on living trunks of *Populus sp.*, 18.10.2005, Kaan 005.

Polyporus brumalis (Pers.) Fr.

Tokat: Artova-Bebekderesi, dead wood of deciduous trees, 03.05.2005, Kaan 008.

Fam. Pleurotaceae

Pleurotus ostreatus (Jacq.) P. Kummer.

Tokat: Artova-Kızıliniř, on *Salix sp.* stump, 03.10.2005, Kaan 040.

Pleurotus eryngii (DC.) Quél.

Tokat: Artova-Tekneli decaying remains of umbellifers, especially *Eryngium* and *Heracleum*. 03.05.2005 Kaan 022.

Fam. Rhizopogonaceae

Rhizopogon luteolus sensu auct. brit. p.p.,

Tokat: Artova-Kızıliniř, sandy conifer woods, 12.06.2005, Kaan 16.

Fam. Russulaceae

Lactarius deliciosus (Scop. : Fr.) Bk. et Br.

Tokat: Artova-Ađmusa, in pine forest, 14.08.2005, Kaan 105.

Fam. Schizophyllaceae

Schizophyllum commune Fr.

Tokat: Artova- on stump of *Salix sp.*, 17.11.2005, Kaan 011.

Fam. Sclerodermataceae

Pisolithus arhizus (Pers.) Rausch.

Tokat: Artova-Kızıliniř rodsides. 18.10.2005 Kaan 070.

Fam. Strophariaceae

Stropharia coronilla (Bull. ex Fr.) Quel.

Tokat: Artova-Ağmusa, lawns and pasture
12.11.2005 Kaan 028.

Fam. Suillaceae

Suillus luteus (L.) Roussel

Tokat: Artova-Ağmusa, under *Pinus sp.*
02.11.2005, Kaan 030.

Fam. Tricholomataceae

Lepista nuda (Bull.) Cooke.

Tokat: Artova-Ağmusa, on soil in conifer
forest, 21.10.2005, Kaan 113.

Marasmius oreades (Bolton) Fr. Tokat:
Artova-Taşpınar, in open place of mixed
forest, 25.10.2005, Kaan 069.

Tricholoma terreum (Schaeff.) P. Kumm.

Tokat: Artova-Taşpınar, in conifer forest,
24.06.2005, Kaan 041.

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