

Botanics

Contribution to Mycobiotic of Algeti National Park (East Georgia): Fungi on the Woody Plants

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(Presented by Academy Member G. Nakhutsrishvili)

ABSTRACT. The paper presents the fungi on woody plants, which have been found in the Algeti National Park. At present 228 species of fungi are revealed on various plants, of which 131 are macrofungi and 97 micromycetes. © 2010 Bull. Georg. Natl. Acad. Sci.

Key words: fungi, woody plants, Algeti National Park.

The Algeti National Park is located on the southern slopes of the East Trialeti range, at the source of the Algeti river. The Algeti Nature Reserve was established in 1965 with the purpose of protecting the southeastern border of distribution of eastern spruce (*Picea orientalis* (L.) Link). In 2007 it was given a status of the National Park. 6044 ha of the Algeti National Park is covered with forests. Among them fir trees occupy - 1442 ha, beech - 2250 ha, oaks - 1380 ha, pines - 250 ha, hornbeams - 120 ha, ash - 9 ha and birch - 5 ha. The flora is rich and diverse - 1009 species have been registered (90 trees

and bushes); botanists call the southern slopes of the Trialeti range a “floristic junction”, since one could find here flora of Colchian, Hircanian, Iberian, Caucasian, Middle Eastern, Persian and other origin [1, 2].

During field studies (2006 - 2008) and on the basis of the Herbarium of Tbilisi Botanical Garden and Institute of Botany, and according to the literature data [3-6], 228 species of fungi on various plants were identified. Of these 131 species are macromycetes and 97 - micromycetes. The 131 species of macromycetes belong to 77 genera, 38 families, 21 orders and 2 classes (Table 1). 97 species of

Table 1.

Macromycetes associated with woody plants

№	Species	Host plants
Ascomycota		
Hypocreales		
Hypocreaceae		
1	<i>Nectria cinnabarina</i> (Tode: Fr.) Fr.	Fagus orientalis, Quercus iberica, Carpinus caucasica
Leotiales		
Hyaloscyphaceae		
2	<i>Lachnum bicolor</i> Karsten	on various woody plant debris
3	<i>Lachnum virgineum</i> S.F. Gray	Quercus iberica, Fagus orientalis

Leotiaceae		
4	<i>Bulgaria inquinans</i> (Pers.) Fr.	Fagus orientalis
5	<i>Bisporella citrina</i> (Batsch: Fr.) Korf & Carp.	Fagus orientalis, Quercus iberica, Carpinus caucasica
6	<i>Clithris quercina</i> (Pers.) Rehm.	Quercus iberica
7	<i>Cenangium ferruginosum</i> Fr., Syn.	Picea orientalis
8	<i>Helotium citrinum</i> (Hedw.) Rehm.	on various plant debris
9	<i>Helotium fructigenum</i> (Bull. ex Fr.) Rehm.	on fruits of oak and hazel
Pezizales		
Helvellaceae		
10	<i>Gyromitra ancilis</i> (Pers.: Fr.) Kreis.	Picea orientalis
11	<i>Gyromitra gigas</i> (Krombh.) Cke	Picea orientalis
12	<i>Gyromitra infula</i> (Schaeff.:Fr.) Quel.	Picea orientalis
Otidea		
13	<i>Scutellinia scutellata</i> (Fr.) Lambotte Fl.	Picea orientalis
Sarcoscypha		
14	<i>Sarcoscypha coccinea</i> (Jacq.) Cooke	on damp rotting wood
Rhizomatales		
Rhizomataceae		
15	<i>Lophodermium pinastri</i> (Schrad.) Rehm.	Pinus silvestris
16	<i>Propolis betulae</i> Rehm.	Betulla sp.
Triblidiales		
Triblidaceae		
17	<i>Pseudographis pinicola</i> Rehm.	Picea orientalis
Xylariales		
Xylariaceae		
18	<i>Daldinia concentrica</i> (Bolt.:Fr.)Ces. & De Not.	Quercus sp.
19	<i>Hypoxylon fuscum</i> (Pers.: Fr.) Fr.	on various plant debris
20	<i>Hypoxylon coccineum</i> Bull.	on various plant debris
21	<i>Xylaria hypoxylon</i> (L.: Fr.) Grev.	on damp rotting wood
22	<i>Xylaria longipes</i> Nitschke	Fagus orientalis
23	<i>Xylaria polymorpha</i> (Pers.: Mer.) Grev.	Fagus orientalis
Basidiomycota		
Agaricales		
Agaricaceae		
24	<i>Echinoderma aspera</i> (Pers.:Fr.)	on sawdust
Bolbitaceae		
25	<i>Agrocybe cylindracea</i> (DC: Fr.) Mre.	on dead wood
Coprinaceae		
26	<i>Coprinus atramentarius</i> (Fr.) Fr.	Salix sp.
27	<i>Coprinus disseminatus</i> (Pers.: Fr.) Gray	Pyrus communis
28	<i>Coprinus domesticus</i> (Fr.) S. F. Gray	Picea orientalis
29	<i>Coprinus micaceus</i> (Fr.) Fr.	on dead wood
30	<i>Psathyrella corrugis</i> (Fr.) Konrad et Maubl.	Picea orientalis
31	<i>Psathyrella piluliformis</i> (Bull.: Fr.) Ort.	on damp rotting wood

Pluteaceae		
32	<i>Pluteus cervinus</i> (Schaeff.) Kumm.	<i>Pyrus communis</i>
33	<i>Pluteus romellii</i> (Britz.)	on rotting wood
34	<i>Volvariella bombycina</i> (Schaeff.: Fr.)	<i>Carpinus caucasica</i>
Strophariaceae		
35	<i>Hypholoma fasciculare</i> (Fr.) Kumm.	<i>Picea orientalis</i>
36	<i>Kuehneromyces mutabilis</i> (Fr.) Sing. et Smith.	<i>Carpinus caucasica</i> , <i>Picea orientalis</i>
37	<i>Pholiota alnicola</i> (Fr.) Sing.	on rotting wood
38	<i>Pholiota apicrea</i> (Fr.) Moser	<i>Pinus silvestris</i>
39	<i>Pholiota aurivella</i> (Fr.) Kumm.	<i>Quercus</i> sp.
40	<i>Pholiota flavida</i> (Fr.) Sing.	<i>Picea orientalis</i>
41	<i>Pholiota squarrosa</i> (Fr.) Kumm.	<i>Fagus orientalis</i>
42	<i>Stropharia aeruginosa</i> (Fr.) Quel.	<i>Picea orientalis</i>
Tricholomataceae		
43	<i>Armillariella mellea</i> (Fr.) Karst.	on various wood
44	<i>Collybia dryophila</i> (Fr.) Kumm.	on rotting wood
45	<i>Collybia hariolorum</i> (Fr.) Quel.	on various plant debris
46	<i>Collybia fusipes</i> (Fr.) Quel.	on rotting wood
47	<i>Flammulina velutipes</i> (Fr.) Karst.	<i>Fagus orientalis</i>
48	<i>Hohenbuchelia petaloides</i> (Fr.) Schlz.	on rotting wood
49	<i>Marasmius alliaceus</i> (Fr.) Fr.	on rotting wood
50	<i>Marasmius androsaceus</i> (Fr.) Fr.	<i>Picea orientalis</i>
51	<i>Marasmius rotula</i> (Fr.) Fr.	<i>Picea orientalis</i>
52	<i>Mycena alcalina</i> (Fr. ex Fr.) Kumm.	<i>Quercus</i> sp.
53	<i>Mycena corticola</i> (Fr.) S.F. Gray.	<i>Carpinus caucasica</i>
54	<i>Mycena crocata</i> (Fr.) Kumm.	<i>Fagus orientalis</i>
55	<i>Mycena galericulata</i> (Fr.) S.F. Gray.	on rotting wood
56	<i>Mycena fagetorum</i> (Fr.) Gill.	on various plant debris
57	<i>Mycena luteoalcalina</i> Sing.	<i>Picea orientalis</i>
58	<i>Mycena niveipes</i> Murr	<i>Picea orientalis</i>
59	<i>Mycena polygramma</i> (Fr.) S.F. Gray.	on various plant debris
60	<i>Omphalina umbellifera</i> (Fr.) Kumm.	<i>Picea orientalis</i>
61	<i>Oudemansiella mucida</i> (Fr.) Hohnel.	<i>Fagus orientalis</i>
62	<i>Oudemansiella platyphylla</i> (Fr.) Moser.	on rotting wood
63	<i>Panellus stypticus</i> (Fr.) Karst.	<i>Picea orientalis</i> , <i>Pinus silvestris</i>
64	<i>Tricholomopsis rutilans</i> (Fr.) Sing.	<i>Picea orientalis</i>
65	<i>Xeromphalina campanella</i> (Fr.) Mre.	<i>Picea orientalis</i>
Auriculariales		
Auriculariaceae		
66	<i>Auricularia Auricula-judae</i> (L.: Fr.) Schroet.	<i>Fagus orientalis</i>
67	<i>Auricularia mesenterica</i> (Dicks.: Fr.) Pers.	<i>Pinus silvestris</i>

Boletales		
Coniophoraceae		
68	<i>Serpula lacrimans</i> (Fr.) Schroet.	on dead wood
Hygroporopsidaceae		
69	<i>Hygroporopsis aurantiaca</i> (Fr.) R. Maire	Picea orientalis
Paxillaceae		
70	<i>Paxillus atrotomentosus</i> (Fr.) Fr.	Picea orientalis
Cantharellales		
Clavulinaceae		
71	<i>Clavulina cinerea</i> (Fr.) Schroet.	on rotting wood
Sparassidaceae		
72	<i>Sparassis crispa</i> (Wulf. in Jacq.) Fr.	Pinus silvestris
Cortinariales		
Cortinariaceae		
73	<i>Galerina hypnorum</i> (Fr.) Kuhn.	on rotting wood
74	<i>Galerina sideroides</i> (Merat) Kuhn.	on various plant debris
Crepidotaceae		
75	<i>Crepidotus applanatus</i> (Pers. ex Per.) Kumm.	on various plant debris
76	<i>Crepidotus cesati</i> (Rabenh.) Sacc.	on various plant debris
77	<i>Crepidotus mollis</i> (Fr.) Kumm.	on various plant debris
78	<i>Tubaria furfuraceae</i> (Fr.) Gill.	on rotting wood
Dacrymycetales		
Dacrymycetaceae		
79	<i>Calocera cornea</i> (Batsch: Fr.) Fr.	on rotting wood
80	<i>Calocera viscosa</i> (Pers.: Fr.) Fr.	Picea orientalis
Fistulinales		
Fistulinaceae		
81	<i>Fistulina hepatica</i> (Schaeff.: Fr.) With.	Quercus iberica
Ganodermatales		
Ganodermataceae		
82	<i>Ganoderma lipsiense</i> (Batsch: Pers.) Atk.	on rotting wood
83	<i>Ganoderma lucidum</i> (Leyss. ex Fr.) Karst.	on rotting wood
Hericiales		
Auriscalpiaceae		
84	<i>Auriscalpium vulgare</i> Gray.	on pine cone
Hericiaceae		
85	<i>Hericium corraloides</i> (Scop. ex Fr.) S.F. Gray	Fagus orientalis
86	<i>Hericium erinaceum</i> Pers.	on dead wood
Hymenochaetales		
Hymenochaetaceae		
87	<i>Hymenochaete tabacina</i> (Sow.: Fr.) Lev.	on various plant debris
88	<i>Inonotus cuticularis</i> (Bull. ex Fr.) Karst.	on rotting wood
89	<i>Phellinus ferruginosus</i> (Scrader: Fr.) Pat.	on various plant debris
90	<i>Phellinus igniarius</i> (L.: Fr.) Quel.	Fagus orientalis

91	<i>Phellinus pini</i> (Brot.: Fr) Ames	Pinus silvestris
92	<i>Phellinus tremulae</i> (Bond.) Bond. & Boris	Populus tremula L.
93	<i>Phellinus ribis</i> (Schum.: Fr.) Karst.	Evonymus sp.
94	<i>Phellinus tuberculosus</i> (Baumg.) Neim	Prunus sp.
Lycoperdales		
Lycoperdaceae		
95	<i>Lycoperdon perlatum</i> Pers.: Pers.	on rotting wood
96	<i>Lycoperdon pyriforme</i> Schaeff.: Pers.	on rotting wood
Nidulariales		
Nidulariaceae		
97	<i>Crucibulum laeve</i> (Huds.) Kambly	on various plant debris
98	<i>Cyathus striatus</i> (Huds.) Batsch: Pers.	on various plant debris
Poriales		
Corioaceae		
99	<i>Cerrena unicolor</i> (Bull.: Fr.) Murr.	on various plant debris
100	<i>Coriolus hirsutus</i> (Wulf. ex Fr.) Quel.	on various plant debris
101	<i>Coriolus pubescens</i> (Schum ex Fr.) Quel.	on various plant debris
102	<i>Coriolus versicolor</i> (L. ex Fr.) Quel.	on various plant debris
103	<i>Coriolus zonatus</i> (Nees ex Fr.) Quel.	on various plant debris
104	<i>Daedalea quercina</i> (L.) Pers.	Quercus iberica
105	<i>Fomes fomentarius</i> (L.: Fr.) Fr.	on various wood
106	<i>Fomitopsis pinicola</i> Sw. ex Fr.	Pinus silvestris, Picea orientalis
107	<i>Gleophyllum sepiarium</i> (Wulf.: Fr.) Karst.	Picea orientalis
108	<i>Hirschioporus pergamenus</i> (Fr) Bond. et Sing	on various wood
109	<i>Laetiporus sulphureus</i> (Bull.: Fr.) Murr.	Fagus orientalis
110	<i>Lenzites betulinus</i> (L.: Fr.) Fr.	Fagus orientalis
111	<i>Pulcherricum caeruleum</i> (Fr.) Parm.	Quercus iberica
112	<i>Trametes gibbosa</i> (Pers.: Fr.) Fr.	on various plant debris
Lentinaceae		
113	<i>Lentinus lepideus</i> (Fr.: Fr.) Fr.	Pinus silvestris
114	<i>Lentinus tigrinus</i> (Bull.: Fr.) Fr.	on various plant debris
115	<i>Panus rudis</i> Fr.	Picea orientalis, Fagus orientalis
116	<i>Phyllotopsis nidulans</i> (Pers.: Fr) Sing.	on various wood
117	<i>Pleurotus cornicopiae</i> (Paul. ex pers.) Roll.	on various wood
118	<i>Pleurotus dryinus</i> (Pers.: Fr.) Kumm.	on dead wood
119	<i>Pleurotus ostreatus</i> (Jacq.: Fr.) Kumm.	Pinus silvestris
Polyporaceae		
120	<i>Polyporus arcularius</i> (Batsch.) Fr.	on various plant debris
121	<i>Polyporus ciliatus</i> Fr.: Fr	on various plant debris
122	<i>Polyporus coronatus</i> Rostk.	on various plant debris
123	<i>Polyporus Forquignoni</i> Quel.	on various plant debris
124	<i>Polyporus picipes</i> Fr.	on various plant debris
125	<i>Polyporus squamosus</i> (Huds.) Fr.	Fagus orientalis
126	<i>Polyporus varius</i> (Pers.) Fr.	on various plant debris

Schizophyllales		
Schizophyllaceae		
127	<i>Schizophyllum commune</i> Fr.	on various woody plants
Steccherinaceae		
128	<i>Irpex lacteus</i> Fr. Elench.	on various plant debris
Stereaceae		
129	<i>Stereum hirsutum</i> (Wild.) Pers.	Fagus orientalis
Tremellales		
Tremellaceae		
130	<i>Tremella foliacea</i> (Pers. ex Gray.) Pers.	Carpinus caucasica
131	<i>Tremella mesenterica</i> Retz. in Hook.: Fr.	Fagus orientalis

micromycetes belong to 60 genera, 4 families, 5 orders and 3 classes (Table 2.). In the Tables the taxons are arranged into the system endorsed by D. Hawksworth [7].

Herbarium patterns and material collected during the

field studies are stored at the Herbarium of Department of Cryptograms and Fungi of the Tbilisi Botanical Garden and Institute of Botany. Identification of collected materials was based on various mycological keys [7-18].

Table 2.

Mycromycetes associated with woody plants

	Species	Host Plants
Ascomycetes		
Erysiphales		
Erysiphaceae		
1	<i>Leveillula taurica</i> Arnaud. f. astragali Jacz.	Astragalus microcephalus
2	<i>Microsphaera alphitoides</i> Griff. & Maubl.	Quercus iberica, Quercus macranthera
3	<i>Phyllactinia suffulta</i> Sacc.	Corylus avellana, Swida australis, Quercus iberica
4	<i>Sphaerotheca pannosa</i> Lev. f. rosae Woronich.	Rosa canina
5	<i>Trichocladia evonymi</i> Neger	Euonymus europaea
6	<i>Uncinula adunca</i> (Wallr., Fr.) Lev.	Salix alba
Pseudosphaeriales		
Mycosphaerellaceae		
7	<i>Botryosphaeria dothidea</i> (Mong.) Ces. & De Not	Rosa canina
8	<i>Cryptodiaporthe pyrrocystis</i> (Berk. & Br.) Wehm.	Corylus avellana
9	<i>Diaporthe eres</i> Nits.	Tilia cordata
10	<i>Diatrype disciformis</i> (Hoffm.) Fr.	Fagus orientalis
11	<i>Didymella salicis</i> Grove ex Berl. & Voglino	Salix alba
12	<i>Eutypella prunastri</i> (Pers.) Sacc.	Cerasus vulgaris
13	<i>Eutypella rosae</i> Otth.	Rosa canina
14	<i>Eutypella sorbi</i> (Alb. & Schwein.) Sacc.	Pyrus communis
15	<i>Hysterographium fraxini</i> (Pers.) De Not.	Fraxinus excelsior
16	<i>Laestadia rosae</i> Auers.	Rosa canina
17	<i>Leptosphaeria sambuci</i> Fautrey	Sambucus nigra
18	<i>Lophodermium pinastri</i> Chev.	Pinus silvestris
19	<i>Massarina eburnea</i> (L.R. & C.Tul.) Sacc.	Fagus orientalis
20	<i>Metasphaeria vulgaris</i> Feltg.	Cornus mas
21	<i>Nectria cinnabarina</i> (Tode) Fr.	Malus domestica
22	<i>Physalospora erratica</i> (C. et E.) Sacc.	Rosa canina
23	<i>Pleospora evonymi</i> Fuck.	Euonymus europaea
24	<i>Pleospora shepherdiae</i> Peck.	Crataegus sp.
25	<i>Pleospora vulgaris</i> Niessl.	Pinus nigra
26	<i>Pseudovalsa profusa</i> (Fr.) Wint.	Quercus macranthera
27	<i>Rhytisma acerinum</i> (Pers.) Fr.	Acer campestre
28	<i>Valsa ambiens</i> (Pers.) Fr.	Euonymus europaea, Tilia cordata

Sphaeriales		
Amphisphaeriaceae		
29	<i>Trematosphaeria tripartita</i> Kirst.	Salix caprea
Basidiomycetes		
Uredinales		
Melampsoraceae		
30	<i>Melampsorium carpini</i> (Nees.) Dietl.	Carpinus caucasica
Pucciniaceae		
31	<i>Gymnosporangium confusum</i> Plowr.	Crataegus sp.
32	<i>Gymnosporangium sabiniae</i> (Dicks.) G. Winter	Pyrus caucasica, Pyrus communis
33	<i>Gymnosporangium juniperinum</i> (L.) Mart.	Malus orientalis
34	<i>Phragmidium bulbosum</i> (Str.) Schlecht.	Rubus sp.
35	<i>Phragmidium disciformum</i> (Tode) James	Rosa canina
36	<i>Phragmidium mucronatum</i> (Pers.) Schlecht.	Rosa canina
37	<i>Phragmidium rubi</i> (Pers.) Wint.	Rubus idaeus, Rubus sp.
38	<i>Phragmidium tuberculatum</i> J. Müller	Rosa canina
39	<i>Phragmidium violaceum</i> (Schulz.) G. Wint.	Rubus sp.
40	<i>Puccinia graminis</i> Pers.	Berberis vulgaris
41	<i>Tranzschelia pruni-spinosae</i> (Pers.) Dietel	Prunus divaricata
42	<i>Uromyces punctatus</i> Schröt.	Astragalus ineertus
Deuteromycetes		
Hyphales		
43	<i>Alternaria alternata</i> (Fr.) Keissler	Quercus macranthera
44	<i>Camarosporium dulcamarae</i> Died.	Acer laetum
45	<i>Camarosporium rosarum</i> (Westend.) Sacc.	Rosa canina
46	<i>Cercospora acerina</i> Hart.	Acer campestre
47	<i>Cercospora astragali</i> Woronich.	Astragalus microcephalus
48	<i>Cercospora cornicola</i> Tracy & Earle	Swida australis
49	<i>Cercospora coryli</i> Mont.	Corylus iberica
50	<i>Cercospora microsora</i> Sacc.	Tilia cordata
51	<i>Cercospora perichymeni</i> Wint.	Lonicera caucasica
52	<i>Cladosporium fuscum</i> Link.	Rosa canina
53	<i>Coniothecium applanatum</i> Sacc.	Salix caprea
54	<i>Coniothyrium fuckelii</i> Sacc.	Rosa canina, Rubus sp.
55	<i>Cylindrocarpon bondarzevii</i> Schishkina & Tsanova	Pinus silvestris; P. kochiana
56	<i>Cylindrosporium aceris</i> Kuhn. Lord. & J.P. Barry	Acer laetum
57	<i>Cytospora leucosperma</i> Fr.	Cornus mas, Corylus avellana, Mespilus germanica, Sorbus aucuparia
58	<i>Diplodia amphisphaerioides</i> Pass.	Quercus macranthera
59	<i>Diplodia carpini</i> Sacc.	Carpinus caucasica
60	<i>Diplodia crataegi</i> West.	Crataegus sp.
61	<i>Diplodia dulcamarae</i> Fuckel	Swida australis
62	<i>Diplodia faginea</i> Fr.	Fagus orientalis
63	<i>Diplodia inquinans</i> West.	Fraxinus excelsior
64	<i>Diplodia rosarum</i> Fr.	Rosa canina
65	<i>Diplodia salicina</i> Lev.	Salix alba
66	<i>Diplodia sambucina</i> Sacc.	Sambucus nigra
67	<i>Diplodia sambucicola</i> F. Fautr.	Sambucus nigra
68	<i>Diplodia sapinea</i> (Fr.) Fuckel.	Pinus nigra
69	<i>Diplodina evonymi</i>	Euonymus europaea
70	<i>Fusicladium fraxini</i> Aderh.	Fraxinus excelsior
71	<i>Fusicladium radiosum</i> (Lib.) Lindau	Populus tremula
72	<i>Gloeosporium fuckelii</i> Sacc.	Fagus orientalis
73	<i>Helminthosporium microcarpum</i> Grev.	Carpinus orientalis
74	<i>Hormiscium pithyophilum</i> (Nees.) Sacc.	Picea orientalis, Ulmus foliacea
75	<i>Hypogymnia bitteriana</i> (Zahlbr.) Rösänen	Picea orientalis
76	<i>Macrophoma camarana</i> Traverso & Spessa	Rosa canina
77	<i>Melanconium bicolor</i> Nees.	Carpinus orientalis
78	<i>Microdiplodia iliceti</i> Sacc.	Fagus orientalis
79	<i>Phoma aculeorum</i> Sacc.	Rosa canina

80	<i>Phoma antarctica</i> Speg.	Fagus orientalis
81	<i>Phyllosticta fraxini</i> Ellis & C.Mart.	Fraxinus excelsior
82	<i>Phyllosticta quercicola</i> Oudem	Quercus macranthera
83	<i>Polystigmia rubra</i> (Desm.) Desm.	Cerasus mahaleb, Prunus divaricata
84	<i>Ramularia angustissima</i> Sacc.	Swida australis
85	<i>Ramularia kochiae</i>	Kochia prostrata
86	<i>Ramularia lethalis</i> Ell. et Ev.	Acer campestre
87	<i>Ramularia rubi</i> (Bub.) Karak.	Rubus caucasicus
88	<i>Septoria aceris</i> (Lib.) Berk. & Broome	Acer campestre
89	<i>Septoria cornicola</i> Desm.	Swida australis
90	<i>Septoria fagi</i> Auersw.	Fagus orientalis
91	<i>Septoria pyricola</i> (Desm.) Desm.	Pyrus communis
92	<i>Septoria rubi</i> West. var. rubi	Rubus idaeus, Rubus sp.
93	<i>Sphaeropsis malorum</i> Berk.	Rosa canina
94	<i>Stigmella dryina</i> (Corda) Lev.	Quercus iberica, Quercus macranthera
95	<i>Stigmia carpophila</i> (Lev.) M.B.Ellis	Cerasus mahaleb, Cerasus vulgaris, Cydonia oblonga, Malus orientalis
96	<i>Trimmatostroma salicis</i> Corda	Rosa canina
97	<i>Tubercularia vulgaris</i> Tode	Malus domestica, Pyrus communis

ბოტანიკა

ალგეთის ეროვნული პარკის მერქნიან მცენარეთა სოკოების შესახებ

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თბილისის ბოტანიკური ბაღი და ბოტანიკის ინსტიტუტი

(წარმოდგენილია აკადემიის წევრის გ. ნახუცრიშვილის მიერ)

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