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## New Records For The Lichen Flora of Turkey

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**Abstract:** Three foliose lichen species, *Collema parvum* Degel., *Phaeophyscia constipata* (Norrl. & Nyl.) Moberg, *Xanthoria fulva* (Hoffm.) Poelt & Petutsching, are new records for Turkey.

**Key Words:** Lichens, Flora, Turkey

### Türkiye Liken Florası İçin Yeni Kayıtlar

**Özet:** Üç yapraklı liken türü *Collema parvum* Degel., *Phaeophyscia constipata* (Norrl. & Nyl.) Moberg, *Xanthoria fulva* (Hoffm.) Poelt & Petutsching Türkiye için yeni kayıttır.

**Anahtar Sözcükler:** Likenler, Flora, Türkiye

### Introduction

About 800 lichen species have been reported from Turkey. Some of these studies were conducted in the provinces of Bilecik (1), Eskişehir (2) and Ilica (Kütahya) (3). There have also been some new records in recent years (4,5). In other recent studies, complete lists of lichen species have been compiled from previous research (6 - 8). However, lichen flora research has not covered many regions of Turkey. This study provides three new records for the lichen flora of Turkey.

The identification of the lichen species was performed according to related lichen flora literature (9-12). These specimens are stored at the herbarium of the Arts and Science Faculty of the University of Uludağ, Bursa.

#### Findings:

LECANORALES

COLLEMATACEAE

*Collema parvum* Degel. in Symb. Bot. Upsal. 13(2): 273, (1954).

Tallus up to 1.5 cm diam., crustose - placodioid, plane to convex, adpressed, ±radiating lobes, 0.1-0.3 mm wide, forming entire or partial rings, upper surface dark brown to blackish, matt, not white pubescent, with few to numerous irregularly globose isidia up to 0.05 (-1) mm diam. Apothecia unknown. On bare limestone,

exposed at c.800 m alt., W. Europe from Arctic to Mediterranean (11,12).

Isparta: Uluborlu, in vicinity of Akçay, on calcareous rock, at 1500 m alt., 19.07.1995 (G. Kaynak 201).

PHYSICIACEAE

*Phaeophyscia constipata* (Norrl. & Nyl.) Moberg, in Symb. Bot. Upsal. 22 (1): 33, (1977).

Syn.: *Physcia constipata* (Norrl. & Hoffm.) Poelt & Petutsching in Herb. Lich. Fern, Nr. 218, 1882).

Thallus grey, greenish-brown, K(-), lobes up to 0.4 mm wide, medulla white, underside yellow with whitish or blackish rhizines. Thallus not sorediate or isidiate, apothecia rare. Rather scarce in Central Europe (12).

Isparta: Uluborlu; Hisarardı, valley, rocks, on calcareous rock, at 1100 m alt., 01.08.1995, (G.Kaynak 216).

TELOSCHISTALES

TELOSCHISTACEAE

*Xanthoria fulva* (Hoffm.) Poelt & Petutsching in Nova Hedwigia 54(1-2): 24, (1992).

Syn.: *Lobaria fulva* Hoffm., Deutschl. Flora 2: 159 (1796).

Thallus red - orange, brown - red, foliose, lobes 2 mm

long, 0,7 (1) mm wide, soralia lip - shaped, ascospores wide ellipsoid, polarilocular, 13,5 - 17,5 x 8 - 10,5 µm, septum 4 - 6,5 µm. From Boreal to Mediterranean regions, on tree bark, rare (12).

Isparta: Uluborlu; Erendost road, around Karatavuk River, on log, at 1200 m alt., 24.07.1995, (G.Kaynak 205).

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