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## Two New Records for the Mycoflora of Turkey

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**Abstract:** *Ustilago heufleri* Fuckel, a parasitic species on *Tulipa aleppensis* Boiss., and *Anthracoidea subinclusa* (Koern.) Bref., on *Carex stenophylla* Wahlenb. subsp. *stenophylloides* (V.Krecz.) Egorova, are recorded for the first time from Turkey.

**Key Words:** New record, *Ustilago heufleri*, *Anthracoidea subinclusa*

### Türkiye Mantar Florası İçin İki Yeni Kayıt

**Özet:** *Tulipa aleppensis* Boiss. üzerinde parazit olan *Ustilago heufleri* Fuckel ve *Carex stenophylla* Wahlenb. subsp. *stenophylloides* (V.Krecz.) Egorova üzerinde ise *Anthracoidea subinclusa* (Koern.) Bref. Türkiye'de ilk defa kaydedilmişlerdir.

**Anahtar Sözcükler:** Yeni kayıt, *Ustilago heufleri*, *Anthracoidea subinclusa*

### Introduction

During our study of parasitic fungi of Harput (Elazığ), two new records were found for the mycoflora of Turkey: *Ustilago heufleri* Fuckel, on *Tulipa aleppensis* Boiss., and *Anthracoidea subinclusa* (Koern.) Bref., on *Carex stenophylla* Wahlenb. subsp. *stenophylloides* (V.Krecz.) Egorova. All specimens are kept at the herbarium of Firat University.

### Results

Basidiomycota

Ustilaginaceae

*Ustilago heufleri* Fuckel

Sori on leaves, forming raised, elongated blisters, linear (0.5-1.2 x 2-3 mm long), parallel to the veins. Each at first covered by a layer of host tissue, which later ruptures. Spore mass powdery and black; oblong to subglobose rarely ovoid, 15-22 µm diam, wall 1.5 µm thick, but with distinct projections from the inner into the outer wall.

Host: *Tulipa aleppensis* B7 Elazığ, Harput, Taşaltı 1140 m. 16.04.2000 SKirbağ 1109. *Tulipa aleppensis* is an Iran-Turanian element and narrowly distributed in

Turkey (B7,C6, C7 squares).

*Ustilago heufleri* was reported for the first time on *Tulipa pavonium* Schrenk in 1842. However, it can be found on other species of *Tulipa*. Additionally, this species lives on *Erythronium* sp. (Ellis & Ellis 1987).

Distribution of *Ustilago heufleri*: Central Asia, Uzbekistan, Ukraine, Crimea, Azerbaijan, Austria, Germany, Greece, Czechoslovakia, Italy, France, Albania, Romania, China, U.S.A., Canada.

*Anthracoidea subinclusa* (Koern.) Bref.

Syn: *Ustilago subinclusa* (Koern.), *Cintractia subinclusa* (Körn) Magnul

Sori in the ovary, tight, covered by case of awn. Spore mass powdery and black. Spore balls, elliptic or rarely irregular, dirty reddish-brown, 13-15.5 x 10-13.5 µm diam, wall 0.8-1.5 (2) µm thick, regular thick, spinose, 1.5-2 mm long.

Host: *Carex stenophylla* Wahlenb. subsp. *stenophylloides* (V.Krecz.) Egorova (Cyperaceae) B7 Elazığ, Harput, Tesbihli Baba Mausoleum, 1130 m. 16.06.2001. SKirbag 1161.

Distribution of *Anthracoidea subinclusa* (Koern.) Bref.: Europe, Asia, South and North America, Siberia.

### **Acknowledgements**

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also due to Dr. Şemsettin CİVELEK for identifying the host species.

### **Reference**

Ellis MB & Ellis JP, (1987). Microfungi on Land Plants: An Identification Handbook London & Sydney: Croom Helm.