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***Hyaloriaceae* Lindau, A New Family Record for Turkish Mycobiota**

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Abstract: A heterobasidioid fungi family *Hyaloriaceae* Lindau was recorded for the first time from Turkey based on the collection and determination of *Myxarium nucleatum* from Gaziantep province. Short description of the taxon are provided together with the photographs related to its macro and micromorphology.

Key Words: Macrofungi, new family record, Gaziantep, Turkey

***Hyaloriaceae* Lindau, Türkiye Mikobiyotası İçin Yeni Bir Familya Kaydı**

Öz: Heterobasidioid bir mantar familyası olan *Hyaloriaceae* Lindau, *Myxarium nucleatum*'un Gaziantep'ten toplanıp teşhis edilmesiyle Türkiye'den ilk kez kaydedilmiştir. Taksona ait kısa betimleme, taksonun makro ve mikromorfolojisine ait fotoğrafları ile birlikte verilmiştir.

Anahtar Kelimeler: Makromantar, yeni familya kaydı, Gaziantep, Türkiye

Introduction

Hyaloriaceae Lindau is a basidiomycetous macrofungi family within the order *Tremellales* and characterized mainly by gelatinous basidiocarps and myxarioid basidia. The family was established by German mycologist Lindau in 1897 (Kirk et al., 2008). Members of the family generally grow on dead wood and plant remains and have a cosmopolitan distribution (Weiss and Oberwinkler, 2001). Currently three genera, *Myxarium* Wallr., *Helicomyxa* R. Kirschner &

Chee J. Chen (Kirschner and Chen, 2004) and *Hyaloria* Möller are included in the family (Donk, 1966; Martin, 1945).

According to the current checklists (Sesli and Denchev, 2008; Solak et al., 2015) on Turkish macromycota no member of the family *Hyaloriaceae* have so far been recorded from Turkey.

The study aims to make contribution to the mycobiota of Turkey.

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Materials and Methods

Myxarium samples were collected from İslahiye district in 2014 during routine field trips carried out to determine the macrofungal diversity of Gaziantep province. The samples were photographed in their natural habitat, collected with care and transferred to the lab within paper bags. Micromorphologic structure were investigated and photographed under Nikon Eclipse Ci trinocular light microscope. Identification were performed with the help of Desjardin et al. (2015), Hauerslev (1993), Kisimova-Horowitz et al. (2000) and Martin (1944, 1945, 1952). The samples are kept at Karamanoğlu Mehmetbey University, Kamil Özdağ Science Faculty, Department of Biology.

Results

Basidiomycota R.T. Moore

Tremellales Fr.

Hyaloriaceae Lindau

Myxarium Wallr.

Myxarium nucleatum Wallr., Fl. crypt. Germ. (Norimbergae) 2: 260 (1833)

Syn: [*Exidia alboglobosa* Lloyd, *Exidia beardsleei* Lloyd, *Exidia gemmata* (Lév.) Bourdot & Maire, *Exidia gemmata* (Lév.) Bourdot & Maire f. *gemmata*, *Exidia nucleata* (Schwein.) Burt, *Exidia tremelloides* L.S. Olive, *Myxarium atratum* (Peck) Ginns & M.N.L. Lefebvre, *Myxarium nucleatum* f. *ampulligerum* Hauerslev, *Myxarium nucleatum* Wallr. f. *nucleatum*, *Myxarium nucleatum* Wallr. var. *nucleatum*, *Myxarium tremelloides* (L.S. Olive) Wojewoda, *Naematelia atrata* Peck, *Naematelia gemmata* (Lév.) Fr., *Naematelia nucleata* (Schwein.) Fr., *Tremella gemmata* Lév., *Tremella nucleata* Schwein.]

Macroscopic and microscopic features: Basidiocarp 2 to 10 mm in diameter, gelatinous, sessile, subglobose when young. Many of them often coalesce and form a convoluted to cerebriform compound fruit body

or fuse into sheet-like masses up to 50-60 mm in diameter. Fruit bodies are hyaline to whitish when young (Figure 1a), vinaceous-brown to olive-brown when mature. Hymenium smooth. Odor not distinctive. Basidia 11–16 x 9–10.5 µm, ellipsoid, longitudinally septate (Figure 1b,c). Spores 8.5–14 x 3.5–5 µm, sausage-shaped, smooth, thin walled and with granular context (Figure 1d).

Ecology: *Myxarium nucleatum* grows on decaying logs of various deciduous woods especially of beech.

Specimen examined: Gaziantep –İslahiye, Tandır village, Huzurlu high plateau, mixed forest, on dead branches of beech, 36°58'N-36°30'E, 1430 m, 19.10.2014, K.10087.

Discussion

Due to its hyaline to whitish jelly structure, *Myxarium nucleatum* may be confused with *Tremella encephala* Pers when young. But their colour differs at maturity. *Myxarium nucleatum* becomes vinaceous to olive-brown in age while *Tremella encephala* becomes pale yellowish-tan. Additionally *Tremella encephala* usually grows in association with *Stereum sanguinolentum* (Alb. & Schwein.) Fr. on conifers while *Myxarium nucleatum* occurs only on hard woods (Breitenbach and Kränzlin, 1986).

Almost 26 jelly basidiomycetous taxa have so far been recorded within the families *Auriculariaceae* Fr., *Dacrymycetaceae* J. Schröt, and *Tremellaceae* Fr., and the genera *Auricularia* Bull., *Calocera* (Fr.) Fr., *Dacrymyces* Nees, *Exidia* Fr., *Guepinopsis* Pat. and *Tremella* Pers. With this study the determined jelly basidiomycetous family number in Turkey increased to five, genera number increased to eight and the species number increased to 27.

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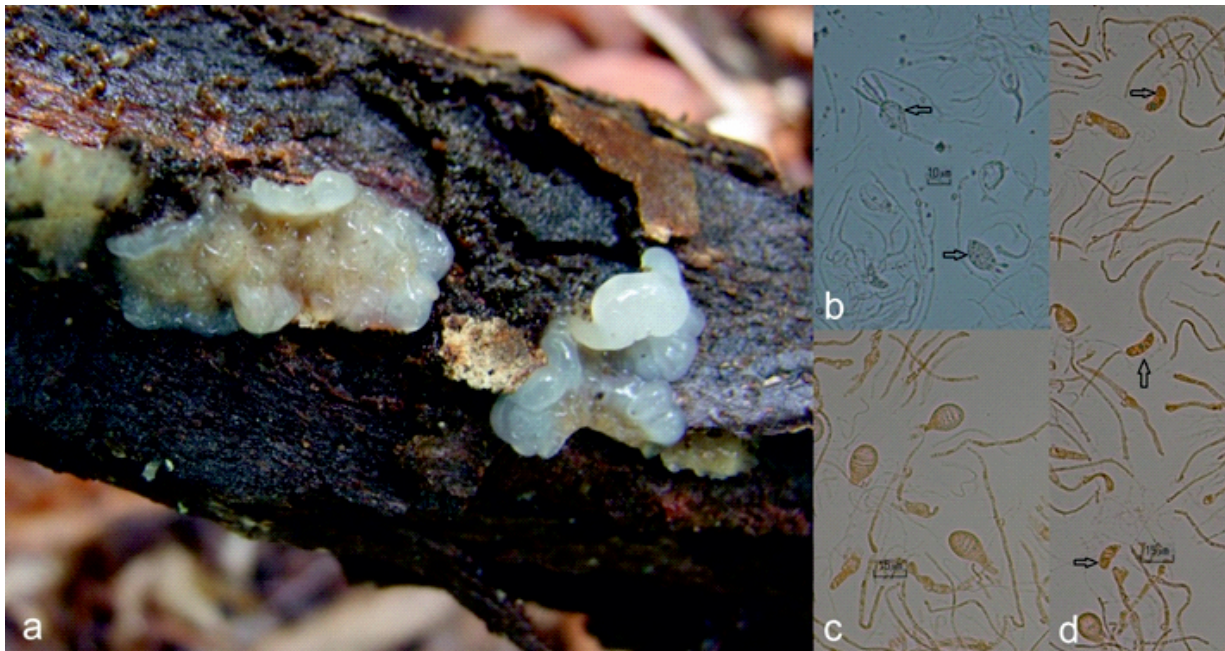


Figure 1. *Myxarium nucleatum*: a. basidiocarps, b,c. basidia, d. basidiospores

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