

A New Lichenized Fungus Species From Turkey: *Pertusaria rubefacta* Erichsen.

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Aim of the study: Studies on the lichenized and lichenicolous fungal biota of several regions in Turkey have been recently increasing. Almost 1300 species of lichenized fungi and 200 species of lichenicolous fungi are now known from the country. Still, there are many areas in Turkey that are insufficiently studied or no lichenological studies have been conducted.

Material and Methods: The specimen reported here are deposited in Erciyes University Herbarium, Kayseri, Turkey (ERC). Examination was made by standard microscopic techniques. Handcut sections were studied in water. Measurements were made in water. And also DNA extraction, PCR amplification, PCR purification, and cycle sequencing were performed. Phylogenetic trees were calculated based on ITS and mtSSU gene region data. For phylogenetic trees, we used this specimen and all *Pertusaria* specimens available in Genbank.

Results and Discussion: This species confirmed by an identification key based on morphological and anatomical characteristic. And also confirmed by phylogenetic trees

Keywords: Lichenized fungus, Akkuyu, Mersin, *Pertusaria rubefacta*

Acknowledgement: This study was financially supported by FYL-2015-6298 coded Erciyes University Project.