

BOOK REVIEW

Mycota (Huby). Ascomycota (Vreckaté huby). Taphrinomycetes: Taphrinales (Grmanníkotvaré), čel. Protomycetaceae, čel. Taphrinaceae Flóra Slovenska X/2

BACIGÁLOVÁ, K.

VEDA, vydavateľstvo Slovenskej akadémie vied, Bratislava, 2010, 184 p., ISBN 978-80-244-1096-0

The book presents the first elaboration of *Taphrinales* in Slovakia. Members of this group are biotrophic fungi parasitizing ferns and higher plants. They are dimorphic organisms with a saprobic yeast stage and a parasitic mycelial stage on host plants, causing characteristic morphological changes on infected tissues, e.g. hypertrophy and hyperplasia. Some economically important species belong to the family *Taphrinaceae*.

The monograph describes 57 taxa of the order, 21 species of the family *Protomycetaceae* and 36 species of the family *Taphrinaceae*, parasitizing on 112 host plant species. The occurrence of 29 species on 52 host plant species was recorded in the territory of Slovakia. Nine new taxa for the mycobiota of Slovakia and for the Carpathian region were documented by the author, specialist to this group of microfungi. Moreover, the occurrence of new host plant species and localities for many fungal species were detected.

The general part of this book contains characteristics of life cycle, taxonomy, morphology, symptomatology and ecology of this group of fungi. A brief history of investigation and present distribution of species belonging to the families *Protomycetaceae* and *Taphrinaceae* are presented. Survey of fungi and their hosts and data on the distribution in Slovakia and Europe are arranged in tables.

The special part of the monograph is focused on taxonomic and chorological characteristics of fungal species, host plants and the localities of their occurrence in phytogeographic districts of Slovakia. Their distribution in the world and additional notes complete the information. Most descriptions are supplemented by drawings, microphotos and maps of distribution.

The monograph is written in the Slovakian language, but it is provided with English identification keys and summary. Index of Latin names of fungi and host plants terminates the book.

This publication provides mycologists, plant pathologists and students with complex information and is a very useful handbook. It also contributes to the knowledge of European mycoflora and inspires to further research on this group of plant pathogens.

RNDr. Jaroslava Marková, CSc., Prague
e-mail: markovaj@natur.cuni.cz