

Mycology and Fungus Diseases (1 ~ 12)

A-01 Identification of *Exobasidium* species causing *Exobasidium* diseases on Korean *Rhododendron* species. J.H. Park¹, K.H. Kim², K.J. Lee¹, S.K. Lee².

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The objectives of this study were to survey various symptoms by *Exobasidium* species on *Rhododendron* plants in Korea and to identify the fungi based on their morphological and cultural characteristics. Diseased plant materials were collected in the spring of 2004. Symptomatic, morphological and cultural characteristics of *Exobasidium* species from Korean *Rhododendron* plants were investigated. The appearances and anatomy of cross-sections of infected plant parts were examined for the symptomatic characteristics with the naked eyes and a light microscope, respectively. Morphological features of the fungal species were examined with light microscope and scanning electron microscope, and their cultural characteristics were observed with the naked eye, stereomicroscope, and light microscope. Three types of *Exobasidium* diseases were found, namely leaf blisters, pocket leaf-galls, and shallow leaf-galls. Leaf blisters and shallow leaf-galls were first reported in Korea. Four *Exobasidium* species were identified, namely *E. dubium*, *E. yoshinagai*, *E. japonicum*, and *E. cylindrosporium*. The *E. dubium* and *E. yoshinagai* were isolated from leaf blisters. *E. japonicum* was detected from pocket leaf-galls and *E. cylindrosporium* from shallow leaf-galls. Except *E. japonicum*, three fungi, *E. dubium*, *E. yoshinagai*, and *E. cylindrosporium* were new to Korea, and four *Rhododendron* species were listed as new hosts for the genus *Exobasidium* in Korea. Those host species included *R. yedoense* for. *poukhanense* and *R. yedoense* for. *yedoense* for *E. dubium* and *E. japonicum*, *R. schlippenbachii* for *E. yoshinagai*, and *R. tashiroi* for *E. cylindrosporium*. A dichotomous key for Korean *Exobasidium* species treated in this study was presented based on the symptoms and morphological characteristics.

A-02 Leaf disease of *Dendrobium Phalaenopsis* caused by *Pseudocercospora dendrobii* in Korea. K.S. Han, J.H. Park, J.S. Lee, H.J. Jang, S.T. Seo. Div. Horticultural Environment, National Horticultural Research Institute, RDA, Suwon 441-440, Korea.