

Identification of Cercosporoid and Ramularioid fungi in Kohgilouye and Boyerahmad Province

Abstract

This research was carried out in order to identify cercosporoid and ramularioid fungi and their host range in Kohgiluyeh and Boyer-Ahmad Province. Specimens with leaf spot symptoms from different localities in province were collected during the spring-autumn 2012-13. Fungi were isolated directly from leaf surface and microscopically examined. Morphological characteristics such as color, shape and size of stroma, conidiophore, conidia, conidiogenous cell and darkness and thickness of conidial scars and hila were studied. Color images and drawings from structures were made using digital camera attached to the microscope and CorelDraw software respectively. A sum of 52 specimens were identified to be infected. 24 samples infected with cercosporoid fungi (including 11 *Cercospora*, 3 *Passalora* and 1 *Stigmata*) and 28 samples infected with ramularioid fungi (including 16 *Ramularia*). Among these, *Cercospora cichorii* (on *Cichorium intybus*), *Cercospora nasturti* (on *Nasturtium aquaticum*), *Cercospora plantaginis* (on *Plantago lanceolata*), *Passalora cucurbiticola* (on *Cucurbita* sp.), *Ramularia armoraciae* (on *Barbarea plantaginea*), *Ramularia cupulariae* (on *Inula* sp.), *Ramularia epilobiana* (on *Epilobium hirsutum*), *Ramularia veronicae* (on *Veronica anagalis-aquatica*) and *Ramularia winteri* (on *Ononis spinosa*) were identified as new records for Iran mycobiota. Furthermore, this is the first report of *Cercospora apii* (on *Rumex crispus*), *Cercospora zebrina* (on *Trifolium resupinatum*), *Ramularia lamii* var. *lamii* (on *Mentha longifolia*), *Ramularia marrubii* (on *Sideritis Montana*), *Ramularia variabilis* (on *Verbascum sinuatum*), *Ramularia beccabungae* (on *Veronica anagalis-aquatica*) and *Stigmata palmivora* (on *Phoenix dactylifera*) in Iran

Keywords: Taxonomy, plant pathology, *Cercospora* and *Ramularia*-like fungi



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