Abstract

In order to taxonomic study of fungi associated with plant coverage in forest areas of Golestan province, collections from host plants with leaf spot symptoms were obtained during spring-autumn 2014-2015. 49 species from 31 genera of fungi on 40 plant genera belonging to 25 plant families were identified. Among these, taxa including *Colletotrichum truncatum* on *Colutea* sp., *Marssonina fragariae* on *Potentila* sp., *Mycosphaerella filicum* on *Pteris* sp., *Passalora alni* on *Alnus glutinosa*, *Phoma macrostoma* on *Ruscus hyrcanus*, *Pseudocladosporium hachijoens* on *Diospyros lotus*, *Septoria mathiolae* on *Mathiola* sp., *Septoria melissae* on *Hyssopus* sp., *Sphaerulina gei* on *Geum* sp. found to be new for mycobiota of Iran. Furthermore taxa including *Cercospora* sp. on *Eruca* sp., *Discosia* sp. 1 on *Crataegus* sp., *Discosia* sp. 2 on *Diospyros lotus*, *Discosia* sp. 3 on *Phylitis* sp. and *Pycnofusarium* sp. on *Ruscus hyrcanus* Study did not specify the name of the species level. other taxa detected including *Alternaria alternata*, *Alternaria teniussima*, *Cercospora mercurialis*, *Cercospora pantoleuca*, *Cercospora violae*, *Cladosporium cladosporioides*, *Cladosporium macrocarpum*, *Ramularia rubella*, *Ramularia sambucina*, *Ramularia grevilleana*, *Sirosporium celtidis*, *Trichothecium roseum*, *Boeremia hedericola*, *Didymosporina aceris*, *Diplodia seriata*, *Marssonina juglandis*, *Phoma* sp., *Polystigma rubrum*, *Septoria convolvuli*, *Rhytisma acerinum*, *Erysiphe alphitoides*, *Erysiphe arcuata*, *Erysiphe convolvuli*, *Erysiphe cruciferarum*, *Golovinomyces cynoglossi*, *Golovinomyces sordidus*, *Phyllactinia alnicola*, *Podosphaera clandestina*, *Podosphaera euphorbiae*, *Podosphaera tridactyla*, *Gymnosporangium confusum*, *Melampsora epitea*, *Melampsora euphorbiae*, *Melampsora hypericorum*, *Puccinia convolvuli*, *Puccinia violae*, *Tranzschelia pruni-spinosa* and *Uromyces viciae-fabae* already have been reported of Iran. also, new host plants were identified for previously been introduced fungi of Iran.

Keywords: Forest plant diseases, Fungus, Leaf spot, Taxonomy

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Identification of airborne mycoflora associated with plant coverage in Golestan forest

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