

عنوان مقاله:

Molecular phylogeny and morphology of four *Ramularia* species from Iran along with a checklist of ramularia-like taxa

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خلاصه مقاله:

The genus *Ramularia* includes important plant pathogens with worldwide distribution, commonly associated with leaf spot diseases on a broad range of plant hosts. Although these fungi are common in Iran, most of the species found to date have been identified on the basis of morphological characteristics, and DNA data are available for limited number of them. During our investigation of fungi associated with leaf spot diseases in north and northwest of Iran, *Ramularia* isolates were recovered from leaves with leaf spots on different herbaceous and woody plants in the Asteraceae, Apiaceae, and Vitaceae families. Based on sequence data of five genomic loci (ITS, actA, tef1, rpb2 and gapdh), host, cultural and morphological data; four species including *R. cynarae* on *Cirsium arvense*, *R. heraclei* on *Heracleum* sp., *R. hydrangeae-macrophyllae* on *Vitis vinifera*, and *R. inaequalis* on *Taraxacum campylodes*, were identified. *Ramularia hydrangeae-macrophyllae* represents a new record for the mycobiota of Iran as well as Asia, and *V. vinifera* is a new host for this species in the world. Moreover, *C. arvense* and *T. campylodes* are new hosts for *R. cynarae* and *R. inaequalis* in Iran, respectively. Additionally, a comprehensive literature-based checklist for 50 ramularia-like species known to occur on different plant species in Iran was provided. The complete annotated list covers 41 *Ramularia* species, two *Cercospora*, two *Neoovularia*, two *Neoramularia*, one *Microcyclosporella*, one *Neopseudocercospora*, and one *Ramulariopsis*.

کلمات کلیدی:

Hyphomycetes, leaf spotting fungi, *Mycosphaerella*, phylogeny, Systematic

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