

INTRODUCING SOME NEW SPECIES OF *Septoria* FOR THE IRANIAN MYCOBIOTA *

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Abstract

In an attempt to provide scientific monograph on the genus *Septoria* Sacc. in Iran, several specimens of *Septoria*, associated with 45 host plant genera belonging to 24 families were investigated. Most studied materials were dried unidentified herbarium specimens from Mycological Collection of the Ministry of Jihad-e Agriculture (IRAN) located at the Iranian Research Institute of Plant Protection, Tehran. Some newly collected specimens were also studied. Based on our taxonomic study 59 *Septoria* species were identified. Among identified taxa 9 species were new to Iran. All newly recorded species were described and illustrated by microphotographs and drawings. The nine newly recorded taxa mentioned in current paper are as follow: *Septoria* sp. aff. *alhagiae* on *Alhagi* sp., *Septoria botuliformis* on *Populus* sp., *Septoria bromi* var. *bromi* on *Bromus* sp., *Septoria caricina* on *Carex depaupertata*, *Septoria caricicola* on *Carex pendula*, *Septoria eremuricola* on *Eremurus* sp., *Septoria festucae* on *Festuca* sp., *Septoria sigesbeckiae* on *Sigesbeckia orientalis* and *Septoria meliae* on *Melia azedarach*.

Keywords: Anamorphic fungi, Morphology, Biodiversity, Taxonomy.

See Persian text for figures and tables (Pages ۳۴۱ –۳۵۱).

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References

- AHMAD, S. 1955. Six new Deutromycetes from west Pakistan. **Biologia Lahore**. 1. 197-198.
- AHMAD, S., IQBAL, S.H. and KHALID, A.N. 1997. **Fungi of Pakistan**. Sultan Ahmad Mycological Society of Pakistan, Dep. of Botany, Univ. of Panjab. 248 pp.
- BROOKS, R.M., BRADLEY, M.V. and ANDERSON, T.I. 1950. **Plant Microtechnique manual**. University of California Davis. 70 pp.
- CABI Bioscience, CBS & Landcare Research 2006, Index Fungorum. <http://www.indexfungorum.org>.
- ERSHAD, D.J. 2009. **Fungi of Iran**. 3rd ed., Iranian Research Institute of Plant Protection. 531 pp.
- ESFANDIARI, E. and PETRAK, F. 1950. Pilze aus Iran. **Sydowia**. 4. 11-38.
- FATEHI, J., HEDJAROUD, G.A. and ERSHAD, D. 1993. Study on the genus *Septoria* in Iran. **Iran. J. Plant Pathol.** 29. (1&2): 53–75. (In Farsi with English Summary).
- HALLIDAY, P.A. 1989. **Dictionary of Plant Pathology**. Cambridge University Press, Cambridge. 369 pp.
- HAWKSWORTH, D.L. and COLE, M.S. 2002. In tralich en, a new genus for lichenicolous *Bispora* and *Trimmatostroma* species. **Fungal diversity**. 11. 87-97.
- HAWKSWORTH, D.L., SUTTON B.C. and AINSWORTH, G.C. 1983. **Ainsworth & Bisby's Dictionary of the Fungi**, 7th ed., Commonwealth Mycological Institute, Kew, Surrey. 445 pp.
- JØRSTAD, I. 1965. *Septoria* and septoroid fungi on dicotyledones in Norway. **Skr Nor Videnskaps-Akad Oslo, I: Mat-Naturv Kl 22**. 110 pp.
- JØRSTAD, I. 1967. *Septoria* and septoroid fungi on Gramineae in Norway. **Skr Nor Videnskaps-Akad Oslo, I: Mat-Naturv Kl 24**. 63 pp.
- KIRK, P.M., CANNON, P.F., MINTER, D.W. and STALPERS J.A. 2008. **Ainsworth & Bisby's Dictionary of the Fungi**. 10th ed., CAB Intl., Wallingford, Oxon, UK. 771 pp.
- PAUL, Y. S. and SINGH, A. 2003. Indian Septoriae. Pawan Kumar scientific publishers (India). 89 pp.
- PETRAK, F. 1939. Fungi in K. H. Rechinger. **Ergednisse einer botanischen Reise nach dem Iran, 1937.**, **Ann Naturh. Mus. Wien** 50: 414-521.
- PETRAK, F. and ESFANDIARI, E. 1941. Beitrage Zur Kenutnis der Iranischen Pilzflora. **Ann. Mycol.** 39: 204-228.
- PRIEST, M. J. 2006. **Fungi of Australia: Septoria**. Australian biological resource study, Canberra. 259 pp.
- RADULESCU, E., NEGRU, A. and DOCEA E. 1973. **Septoriozele din Romania**. Bucuresti. 325 pp. (In Rumanian)
- SHIN, H.D. and SAMEVA, E.F. 2004. **Septoria in Korea**. National Institute of Agricultural Science and Technology, Suwon, Korea, 183 pp.
- SUTTON, B.C. 1980. **The Coelomycetes. Fungi Imperfecti with pycnidia, acervuli and stromata**. Commonwealth Mycological Institute, Kew, Surrey, England. 696 pp.
- TETEREVNIKOVA-BABAYAN, D.N. 1987. Fungi of the genus *Septoria* in the USSR. **Akademiya Nauk Armyanskoi SSR, Yerevan**, 478 pp. (In Russian).