

Short Communications

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NEW RECORDS OF *CERCOSPORA* SPECIES (HYPHOMYCETES) FOR INDIA FROM ANDHRA PRADESH-II

G. BAGYANARAYANA, P. JAGADEESWAR AND P. RAMESH

Department of Botany, O.U. College of Science, Osmania University, Hyderabad-500 007 A.P.

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A systematic survey of the Cercosporae of Andhra Pradesh is made. Eight species belonging to the fungus genus, *Cercospora* are recorded in this paper. Of these *C. tribulii* is described as a new species. The remaining species viz. *C. oxybaphi* Ell. & Halsted; *C. partheniphila* Chupp & Greene; *C. pouzalaziae* Sydow, *C. pulcherrimae* Tharp; *C. stomatica* Ellis & Davis, *C. truncata* Ell. & Everth; *C. yoshinagiana* Chupp. are new records to India.

Key Words: Systematics - *Cercospora* (Hyphomycetes) - Andhra Pradesh.

During a survey of Cercosporae of Andhra Pradesh the authors collected several species of *Cercospora* infecting different flowering plants. A detailed microscopic examination revealed the presence of *Cercospora oxybaphi* Ell. & Halsted, *C. partheniphila* Chupp. & Greene, *C. pouzalaziae* Sydow, *C. pulcherrimae* Tharp., *C. stomatica* Ellis & Davis, *C. truncata* Ell. & Evert., *C. yoshinagiana* Chupp on different hosts.

A perusal of literature (Bilgrami *et al.*, 1979, 1989, 1991; Mukerji & Jayanti Bhasin, 1986; Sarbhoy *et al.*, 1986 and 1996; Vasudeva, 1963) revealed all the above species to be hitherto unrecorded from India. The *Cercospora* species on *Tribulus* sp was found to be new and is described as *C. tribulii* sp. nov. The specimens of *Cercospora* species reported in this paper are deposited in the Mycological Herbarium, Osmania University, Hyderabad and HAL. (Herbarium of Martin-Luther-Universitat, Halle-Wittenberg, Germany).

Cercospora tribulii sp. nov. (Fig. 1)

Maculae amphigeni, suborbicularis, atro marginalis, centro albidis, 1-2 mm late; caesputili amphigeni, stroma parvum, conidiophora longaris, brunnea, erecta vel curvata, 3-6 septata, 46.5-300x3.8-4.2 μ m; conida hyalinis, recta vel curvata, obclavata, multi septata basi truncata, apice subacuta; 62-280x2.8-3.4 μ m.

Holotypus : In boliis vivis of *Tribulus* sp; (Zygophyllaceae) Umamaheswaram temple, Achampet, Mahaboobnagar (A.P.), Dec. 1990,

Jagadeeswar, O.U. Myc. Herb, CER. No. 96. HAL.

Leaf spots amphigenous, subcircular, centre white surrounded by dark margin, 1-2 μ m in diameter; caesputuli amphigenous, stroma not well developed, conidiophores very long, brown, straight to curved, 3-6 septate, 46.5 x 300 x 3.8 - 4.2 μ m; conidia hyaline, straight to curved, obclavate, multiseptate, base truncate, tip subacute, 62-280 x 2.8 - 3.4 μ m.

Cercospora oxybaphi Ellis & Halsted. *Journ. Mycol.* 4:8. 1888.

On living leaves of *Bougainvillea* sp., Sanjeevaiah Park, Secunderabad (A.P.), January, 1991, Bagyanarayana & Jagadeeswar, O.U. Myc. Herb. CER. No. 120 and HAL.

Cercospora partheniphila Chupp & Greene. *Amer. Midland Nat.* 34 : 269. 1945

On living leaves of *Parthenium hysterophorus* Linn. Wanaparthi, Mahabubnagar (A.P.). Sept. 1991. Bagyanarayana, Jagadeeswar, O.U. Myc. Herb. CER. No. 127 and HAL.

Cercospora pouzalaziae Sydow. *Ann. Mycol.* 33: 236. 1935.

On living leaves of *Pouzalzia auriculata*, Umamaheswaram temple (Achampet). Mahabubnagar (A.P.), January, 1992, Bagyanarayana and Jagadeeswar. O.U. Myc. Herb. CER. No. 143 and HAL.

Cercospora pulcherrimae Tharp. *Mycologia* 9: 114. 1917.

= *Cercospora pulcherrimaeminima* Tharp *Mycologia* 9 : 114. 1917.

On living leaves of *Euphorbia hirta* Linn; P.G. College of Science, Saifabad. Hyderabad (A.P.), Oct., 1990, Bagyanarayana and Jagadeeswar.O.U. Myc. Herb. CER. No. 63 and HAL.

Cercospora stomatica Eliis & Davis Proc. Acad. Nat. Sci. Phila 47 : 438. 1895.

= *C. parvimaculans* Davis, Wisc. Acad. Trans. 24 : 300. 1929.

On the living leaves of *Solidago* sp., Landscape garden, Osmania University Campus, Hyderabad, (A.P.) January, 1992, Bagyanarayana and Jagadeeswar, O.U. Myc. Herb. CER. No. 135 and HAL.

Cercospora truncata Ell. & Ever. Jour. Mycol. 3 : 19. 1887.

On living leaves of *Vitis* sp., Khammam (A.P.), Dec. 1990, Gopal Rao, O.U. Myc. Herb. CER. No. 124, and HAL.

Cercospora yoshinagiana Chupp. A monograph of the Fungus Genus *Cercospora*, New York P. 423. 1953.

= *Cercospora ludwigiae* var. *japonica* P. Hennings. *Bot Jahrbucher* V. Engeer 34 605. 1905.

On living leaves of *Ludwigia* sp., Yellore Mahabubnagar (A.P.) October, 1991 Bagyanarayana and jagadeeswar, O.U. Herb. CER No. 131 and HAL.

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