

Curvularia lunata on rose (rosaceae) plant reported from khindsi lake garden Ramtek (Kamptee, Nagpur) Region

M. G. Bidwaik, Institute of science Nagpur

Abstract:-

Khindsi lake garden, Ramtek is one popular tourist place where large no of flower plant (Rose) available present investigation a rose plant show infected leaf with patches which on staining with L.P.C.B. Analysis observed large no of Curvularia lunata Infection.

Keyword :- (CMI) KEW Common weath mycological institute (LPBC) Lepto phenol cotton blue curvularia lunata, rosa damascena.

Introduction:

Curvularia lunata is commonly found Paddy, Songhum, citrus, black soil, Rice seedlings, it is a (mold hyphomycetes. member reported from tropical region. It is reported on rose plant rosa damascena (rosaceae) from Ramtek.

Infection started as a small brown spot on the leaf lamina later on developed dark brown patches, throughout plant. On the leaf lamina show brownish - greyish growth / hardening lamina, detachment, cracking, defoliation is also observed.

Throughout the study of morphology of fungi Taxonomy and other details the literature was reviewed time to time. The references gave the information and update details prepares for the research. The supporting work has studied scientifically.

Review of Literature:-

Bilgrami, K.S. and H.C.dube, 1976; A textbook of modern plant pathology. Bilgrami, K.S. Jamaluddin and Rizvi, MA, 1981; Fungi of India Part I. Bilgrami, K.S. Jamaluddin and Rizvi, M.A, 1981, Fungi of India Part II. Chavan, B.P and V.V.Kulkarni, 1974, Addition of fungi of Maharashtra Chiplonkar, A, 1970; fungi imperfecti (sphaeropsidales) from Maharashtra. Chona, B. L., 1956, Notes on miscellaneous India fungi-III Clayton, C.N., 1942 the germination of fungus spore in relation to controlled humidity.

SACCARDO, P.A. 1889. Syll. fung. 14: 1089, MASON, E. W. 1928, Mycol. Pap. 2: 2-11. GROVES, J.W. and SKOLKO, A. J. 1945. Canad. J. Bot. 23: 101. SUBRAMANIAN, C.V. 1955. Proc. Indian Acad Sci. B 38:28-9, f. 2. LUTTRELL, E.S. 1956. Plant Dis. Repr 40: 57-60, f1 D. PARMELEE, J.A. 1956. Mycologia 48: 558-67, f. 1-3. GILMAN, J. C. 1957. A Manual of Soil Fungi, p. 338. HUGHES, S. J. 1958. Canad. J. Bot. 36: 759.

Objective:-

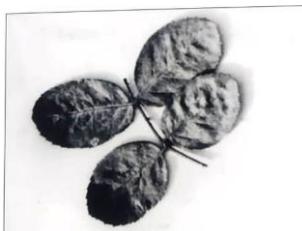
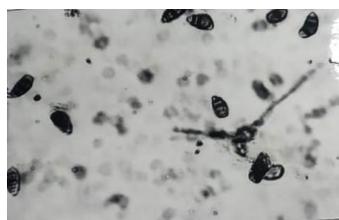
To enhanced the listing and evaluation of mycoflora of Kamptee, Nagpur region (Khindsi garden lake Ramtek). A rose plant family rosaceae (R. damascene infect) by fungi curvularia species (curvularia lunata).

Material & Methodology:-

1. Collection of Pathogen (Fungal Infection)
2. Sectioning of Sample (Herbarium)
3. Staining (L.P.C.B.)
4. Microphotography, Compilation of Data Along with
5. Magnified Camera Lucida Diagrams (Sketches).

Observation and Results:-

Shiny velvety black coloured growth on leaf of Rose plant, mycellium is septed & branched ConidioPhore dark brown, conidia boat-shaped, Curved with gradually middle one larger and side one is smaller appear like curved or boat shaped.





Result:-

New Host Rosa plant reported for Curvularia lunata (Hyphomycetes). The another contribution to mycoflora for garden on ornamented plant in Nagpur region (Rosaceae)

Conclusion:-

Conidia boat shaped, brown, 3-septate middle one larger than other two one give shaped & curved. Like boat. That is curvularia lunata Border conidia arranged on Conidiophor with tip Host Pathogen Relationship identified by koch's postulate. Curvularia lunata present on rosa damascene (rose plant).

References:-

Saikia, U.N. and A.K. Sarabhoy, 1980 Hypomycetes of North-East India.

Shreemali JL, 1973, some new leaf infecting fungi

Tandon R.N. and Chandra, S, 1962, nutritional studies on sercospora ricinella (sallc.et Burt) Speg. Oytan, 18:165-171.

Thind, K.S. and M Madon, 1983, growth and sporulation of alternaria. Res. Bull. Panjab University. Sci, 34:129.

Verma, VL, 1979; effect of sucrose concentration on growth and sporulation of three species colletotrichum Pathogenic to Chilies Indian J.Mycol. and PI Pathol, 9(1): 130-131.

Vyavhare, 1988, Mycophysiological studies of some leaf spot diseases Ph.D. Thesis Amaravati University.

Wangikar B.P. and VN. Ballal, 1984, a new species of hypodermella from Maharashtra Curr. Sci., 53(21): 1162-1163.

Abdel-rehim, awad, M. and Hassan A Arabab, 1985 Nutrient requirement in germination of conidiophores of Aspergillus niger Mycopathologia, 92(2):111-114.

Agarwal, G.P., 1961; fungi causing plant diseases at Jabalpur (MP)-III Jour India. Bot.Soc., 40 (3): 404-408.

Agnohotri, VP, 1961, studies on colletotrichum capsici-II, carbion and nitrogen requirements phytopath, 2, 43: 101-112.

Bais, B.S.; S.B. Singh and D.V Singh 1970; the effect of different carbon and nitrogen compound on the growth and sporulation of curvularia pallescens Indian phytopath. 23:511-515.

Bhandari, J.K.S. and RS Singh, 1976; effect of corbon and organic nitrogen sorces on the growth of altemaria triticcina Indian phytopath, 29 8889.

