



## A New Species Of *Camarosporium* from Pulgaon, Wardha District

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### Abstract:

During study of saprobic fungi from Pulgaon, Wardha district, we collected various fungi. Morphological study reveals that the genus *Camarosporium* was distinct from known species. The detailed description and comparison of the species of *Camarosporium* is given in this paper. This genus is reported for the first time from Wardha district.

**Key words:** *Camarosporium*, Pycnidium, septate spores, Pulgaon.

### Introduction:

*Camarosporium* is a large Coelomycetes genus which was formerly recognized as sexual state in Botryosphaerales and Cucurbitariaceae. The genus *Camarosporium* was introduced by Schulzer 1870 with *C. quaternatum* (Hazsl.) Schulz. as the type species. The authors made collection of pycnidial fungus on dead twig of unidentified host, which on detailed study found to be *Camarosporium* which is different from the reported species. The present collection is therefore accommodated as new species.

### Material and Methods:

The collected material were wrapped in butter paper and brought to the laboratory. Hand sections were taken and stained in lacto phenol mixed with cotton blue. The microscopic examination, study of literature and relevant keys have revealed the material to be a new species of *Camarosporium* (Barnett et al 1972, Jamaluddin et al 2004, Wijayawardene et al 2014, Wijayawardene et al 2012a, Wijayawardene et al 2014.). The type material was deposited at the Mycological Herbarium, Agharkar Research Institute, Pune, India.

### Result and Discussion :

***Camarosporium indicum* sp. nov.** (Fig1: a, b)

(Etymology: Homage to India)

Pycnidium dark brown to black, erumpent, nearly globose, discrete ostiolate measure 110-235.2x240.0-307.1µm conidiophores short, simple hyaline; conidia dark-brown, ovoid, muriform, measure, 8-11x4-8µm.

Pycnidia atro-

brunneavalnigra, erumpentiaglobosa, discrita, ostiolata, magnit 110-235.2x240.0

307.1µm: conidiophores short, brevia, simplicia, hyalina: conidia fuscabrunnea, ovidea, muriformia magnit 8-11x4-8µm.

**Matrix:** On dead unidentified host, legit N.S.D. at Pulgaon (Dist.-Wardha) on 6-07-2003. AMH 9053. (Haplotype).

### Comparison of the micro-morphology of the species of *Camarosporium*

Species	Pycnidia	Conidia	Reference
<i>C. quaternatum</i> (Hazsl) Schuler. Type species	Up to 450µm in diam	15.5-26x6.5-10.5µm	Sutton B.C(1980)
<i>C. berbericola</i> Delacer	200x150µm	11-12.5x7-9µm	Wehmeyer L.E.(1964)
<i>C. tilaki</i> R.Rao	89-90x70-80µm	12-16x5-9µm	R.Rao(1965)
<i>C. psoraleae</i> Crous & Wingf	400µm diam.	12-18x8-11µm	Crous & Wingf(2013)
<i>C. indicum</i> sp. nov	110-235.2x240-307.1µm	8-11x4-8µm	Understudy

The present fungus on comparison with earlier described species in the genus *Camarosporium* found to be quite distinct, hence treated as new species.

### References:

- Barnett, H. Land Hunter, B.B. 1972. Illustrated genera of imperfect fungi. Burgess Publishing Company. 240pp.
- Crous and Wingf, M.J. 2013. *Camarosporium psoraleae* species nova, *Fungal Planet*. 181.
- Jamaluddin, S., Goswami, M.G. And Ojha, B.M. 2004. Fungi of India (1989-2001)

- Scientific Publishers,(India),Jodhpur,326pp.
4. Rao, Ramchandra.1965.Some new and noteworthy fungi from India-I. My copath. et.Mycol.appl, 27:29-32.
  5. Sutton, B.C.1980.Thecoelomycetes, CMI, Kew, England.696pp.
  6. Wehmeyer, L.E.1964.Some fungi imperfecti from Punjab and Kashmir, Mycologia.56:29-52.
  7. Wijayawadene,D.N.N.,Mckenzie,E.H.C.,Chukeatirote,E.Wang,Y&Hyde,K.D.2012a.Coe  
lomycetes.Cryptogamie Mycologie.33:215-244.
  8. Wijayawardene,Nalin N,D Jayaram Bhat, Kevin D. Hyde, E. Camporsi, K.W.T. Chethana,NarumonTangthiraSunun& Y. Wang. 2014.*Camarosporium sensustricto* in Pleosporinae,Pleosporales with two new species.Phytotaxa. 183(1):016-026.

