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NOTE

FIRST REPORT OF GOLOVINOMYCES SP. CAUSING POWDERY MILDEW INFECTION ON DYSCHORISTE NAGCHANA IN WESTERN GHATS OF INDIA

Sachin Vasantrao Thite

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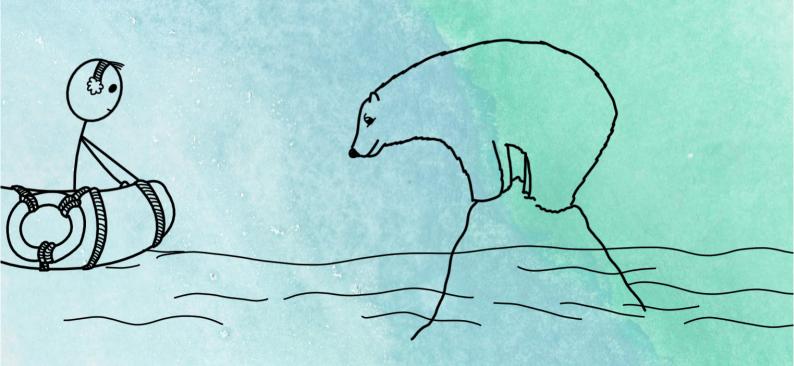
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First report of *Golovinomyces* sp. causing powdery mildew infection on Dyschoriste nagchana in Western Ghats of India

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Dyschoriste nagchana is a perennial plant growing naturally in wet grassland, but quite often now found in secondary bushland and grassland, including lawns. In January 2019, severe powdery mildew infection was observed for the first time in the hills of Western Ghats of district Satara, viz., Yavateshwar and Varoshi, predominantly on the leaves and stem of D. nagchana (Image 1a). Due to severe infection, premature leaf fall was observed. The pathogen was observed in the anamorphic form only.

After collection and detailed study diseased specimen was deposited in the Airekar Mycological Herbarium (AMH 9659) housed at Agharkar Research Institute, Pune, Maharashtra, India. The teleomorph (chasmothecia) of this powdery mildew was not found. The anamorph is characterized as follows: mycelium caulicolous and foliicolous, amphigenous, thin-walled, effuse or thicker white patches, persistent; hyphae colourless, hyphal appressoria solitary, always nippleshaped (Image 1f); conidiophores arising laterally and usually towards one end of the hyphal mother cell, footcell curved, 48-55x 7-10 µm (Image 1d). Conidia broadly ellipsoid doliiform without fibrosin bodies, 35x18 µm (Image 1b, c). Germ tubes terminal, short. Tips often

with a swollen appressorium (Image 1e). Based on these morphological characters the pathogen is identified as Golovinomyces sp. (Euoidium sp).

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A literature survey (Paul & Thakur 2006; Hosagoudar & Agarwal 2009; Braun & Cook 2012; Farr & Rossman 2016) reveal that no powdery mildew infection has been reported on D. nagchana from India and abroad. To our knowledge, this is the first report of Golovinomyces sp. (Euoidium sp). on D. nagchana from India.

References

Braun, U. & R.A. Cook (2012). Taxonomic Manual of the Erysiphales (Powdery Mildews). Fungal Biodiversity Centre (CBS BiodiversitySeries No. 11), Utrecht, 707pp.

Farr, D.F. & A.Y. Rossman (2016). Fungal Databases, Systematic Mycology and Microbiology Laboratory, ARS, USDA. Retrieved 7 February 2016 from http://nt.ars-grin.gov/fungaldatabases/

Hosagoudar, V.B. & D. Agarwal (2009). Powdery Mildews of India -Check List. Associated Publishing Company, New Delhi, 106pp.

Paul, Y. & V. Thakur (2006). Indian Erysiphaceae. Scientific Publishers, Jodhpur India, 134pp.

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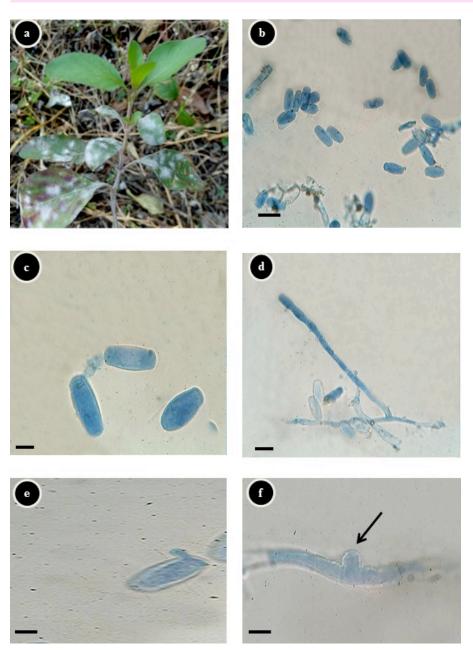


Image 1. a—infected host | b—conidia at 45x | c—conidia 100x | d—conidiophore | e—germinated conidium | f—arrow indicates nipple shaped hyphal appressorium. Scale= 20μm.





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