

Genus *Aphanostigme* from Indian

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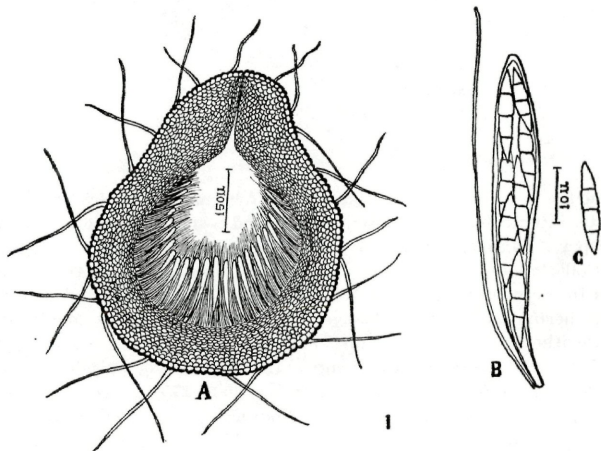
(Maulana Azad College, Aurangabad, India)

(With three figures)

During the survey of forest fungi Maharashtra state, India authors came across some black fungus on dried stems of many hosts viz. *Glycosmis pentaphylla* Corr., *Lantana camara* L., *Eugenia jambulina* Lam., On critical study they found to be belonging to genus *Aphanostigme* Syd. The genus *Aphanostigme* was erected by Sydow (1926) with *A. solani* as the type species. However this genus remained unreported from India upto now. Hansford (1946) described nine species from Uganda. As all the present collections found to be distinct from the hitherto described species and recorded on new hosts they are presented as new species.

1. *Aphanostigme glycosmidis* sp. nov.

Perithecia superficial, aggregate in to small groups of 5—6, setose, light brown to brown, ostiolate, with a short neck, perithecia covered all over with light brown hairs, hairs up to 300 μ long. Wall of the peri-



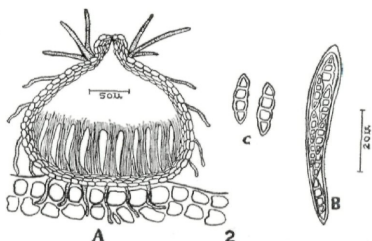
thecium membranous, $500-525 \times 530-675 \mu$. Asci many, clavate to cylindrical, bitunicate, hyaline, paraphysate, 8-spored, $84-103 \times 11-15.2 \mu$. Paraphyses filiform, long, hyaline, nonseptate; Ascospores hyaline, fusoid, 3-septate, constricted at the septa and pointed at the ends, irregularly biseriata, $38-42 \times 5.2-7.6 \mu$.

Collected on dried stems of *Glycosmis pentaphylla* Corr. at Mahabaleshwar, in the month of June 1968, Leg. Sathu and deposited in the herbarium of Azad College, Aurangabad under No. MAH. 1002.

Perithecia superficialia, greges minutos formantia, ovoidea, pallide brunnea vel brunnea, ostiolata, setis pallide brunneis, usque 300μ longis obtecta, $500-525 \times 530-675 \mu$; pariete membranaceo, pseudoparenchymatico; asci numerosi, cylindraceo-clavati, in stipitem brevem attenuati, crassiuscule tunicati, 8-sporei, $84-103 \times 11-15.2 \mu$; spora incomplete distichae, fusioideae, utrinque plus minusve attenuatae et acuminatae, hyalinae, 3-septatae, ad septa constrictae, $38-42 \times 5.2-7.6 \mu$; paraphyses filiformes, ascos superantes.

2. *Aphanostigme lantanae* sp. nov.

Perithecia globoid, dark brown, superficial scattered, setose ostiolate, with dark setae around the short neck; Setae around the neck are 100μ long and spreading. Perithecial wall membranous, Perithecia



measuring from $155-225 \times 200-275 \mu$. Asci many cylindrical to slightly clavate, bitunicate, paraphysate, hyaline and 8-spored, $55-62 \times 6-7 \mu$. Ascospores hyaline, biseriata fusoid, $14-18 \times 4-5 \mu$.

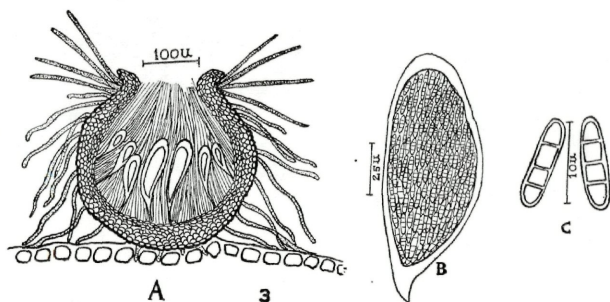
Collected on dried stems of *Lantana camara* L., at Aurangabad, India in the month of August 1968, Leg. Srinivasulu and deposited in the herbarium of Azad College, Aurangabad under No. MAH. 1003.

Perithecia superficialia, dispersa, obscure brunnea, ostiolo papilliformi praedita, setis ad 100μ longis, circa ostiolum divaricatis, ceterum plus minusve deflexis obtecta, $155-255 \times 200-275 \mu$; pariete membranaceo, pseudoparenchymatico; asci cylindraceo-clavati, antice late rotundati, postice paulatim attenuati, crassiuscule tunicati, 8-sporei, paraphy-

sati, $55-62 \times 6-7 \mu$; sporae plus minusve distichae, fusioideae, hyalinae, 3-septatae, ad septa leniter constrictae, $14-18 \times 4-5 \mu$.

3. *Aphanostigme multispora* sp. nov.

Perithecia superficial, setose, brown, ostiolate, with few dark spreading setae around the short neck, setae 155μ long. Hyphae surrounding the perithecia are light brown, at the base they are seen piercing through the epidermis of the host. Perithecia measuring from $275-300 \times 220-232 \mu$. Asci many, clavate, with a short pedicel, multispored, hyaline, bitunicate, paraphysate, $95-114 \times 26-34.2 \mu$. Ascospores, hyaline, 3 septate, polyserially arranged, fusoid with round ends, $8-11.2 \times 3-3.5 \mu$.



Collected on dried stems of *Eugenia jambulina* Lam., at Mahabaleshwar, India in the month of November, 1968. Leg. Sathé and deposited in the herbarium of Azad college, Aurangabad under No. MAH. 1004.

Perithecia superficialia, brunnea, globosa, setis pallide brunneis usque ad 155μ longis, circa ostiolum divaricatis, ceterum plus minusve deflexis et matrixi innatis oblecta, $275-300 \times 220-232 \mu$, asci crasse clavati vel oblongo-ellipsoidei, antice late rotundati postice in stipitem brevem abruptiuscule attenuati, polyspori, crassiuscule tunicati, paraphysati, $95-114 \times 26-34.2 \mu$; sporae curvulae, cylindraceo-fusioideae, utrinque obtusae, leniter attenuatae, rectae, 3-septatae, ad septa vix constrictae, $8-11.2 \times 3-3.5 \mu$.

Acknowledgements

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References

- Hansford, C. G. (1946). The Foliicolous Ascomycetes their parasites and associated fungi. Mycolpap. CMI. 15: 240 pp.
Sydow, H. (1926). Ann. Mycol., Berl. 24: 368.

Explanation of Figures

1. *Aphanostigme glycosmidis* sp. nov. — A. V. S. of Perithecium. B. Ascus. C. Ascospores.
2. *Aphanostigme lantanae* sp. nov. — A. V. S. of Perithecium. B. Ascus. C. Ascospores.
3. *Aphanostigme multispora* sp. nov. — A. V. S. of Perithecium. B. Ascus. C. Ascospores.

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Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Sydowia](#)

Jahr/Year: 1970/1971

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