

Genus *Aphanostigme* from Indian

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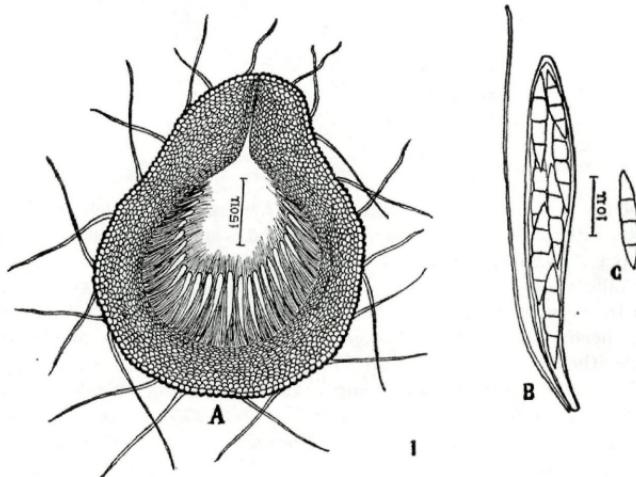
(Maulana Azad College, Aurangabad, India)

(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 until 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 300μ long. Wall of the peri-



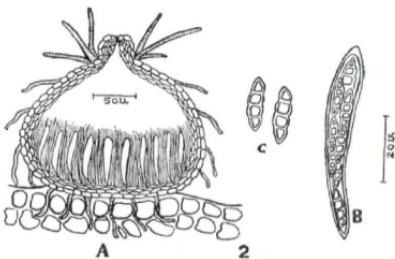
thecium membranous, 500—525 × 530—675 μ . Ascii many, clavate to cylindric, bitunicate, hyaline, paraphysate, 8-spored, 84—103 × 11—15.2 μ . Paraphyses filiform, long, hyaline, nonseptate; Ascospores hyaline, fusoid, 3-septate, constricted at the septa and pointed at the ends, irregularly biseriate, 38—42 × 5.2—7.6 μ .

Collected on dried stems of *Glycosmis pentaphylla* Corr. at Mahabaleshwar, in the month of June 1968, Leg. S a t h e 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 300 μ longis obtecta, 500—525 × 530—675 μ ; pariete membranaceo, pseudoparenchymatico; ascii numerosi, cylindraceo-clavati, in stipitem brevem attenuati, crassiuscule tunicati, 8-spori, 84—103 × 11—15.2 μ ; sporae incomplete distichae, fusoideae, utrinque plus minusve attenuatae et acuminatae, hyalinae, 3-septatae, ad septa constrictae, 38—42 × 5.2—7.6 μ ; 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 100 μ long and spreading. Perithecial wall membranous, Perithecia



measuring from 155—225 × 200—275 μ . Ascii many cylindric to slightly clavate, bitunicate, paraphysate, hyaline and 8-spored, 55—62 × 6—7 μ . Ascospores hyaline, biseriate fusoid, 14—18 × 4—5 μ .

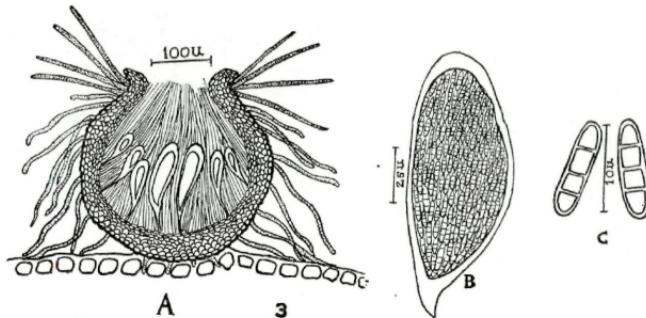
Collected on dried stems of *Lantana camara* L. at Aurangabad, India in the month of August 1968, Leg. S r i n i v a s u l u and deposited in the herbarium of Azad College, Aurangabad under No. MAH. 1003.

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

sati, 55—62 × 6—7 μ ; sporae plus minusve distichiae, fusoideae, hyalinae, 3-septatae, ad septa leniter constrictae, 14—18 × 4—5 μ .

3. Aphanostigme multispora sp. nov.

Perithecia superficial, setose, brown, ostiolate, with few dark spreading setae around the short neck, setae 155 μ long. Hyphae surrounding the perithecia are light brown, at the base they are seen piersing through the epidermis of the host. Perithecia measuring from 275—300 × 220—232 μ . Ascii many, clavate, with a short pedicel, multisporous, hyaline, bitunicate, paraphysate, 95—114 × 26—34.2 μ . Ascospores, hyaline, 3 septate, polyseriately arranged, fusoid with round ends, 8—11.2 × 3—3.5 μ .



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

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

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References

- Hansford, C. G. (1946). The Follicolous 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 Peritheciun. B. Ascus. C. Ascospores. 2. *Aphanostigme lantanae* sp. nov. — A. V. S. of Peritheciun. B. Ascus. C. Ascospores. 3. *Aphanostigme multispora* sp. nov. — A. V. S. of Peritheciun. B. Ascus. C. Ascospores.

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Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

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