

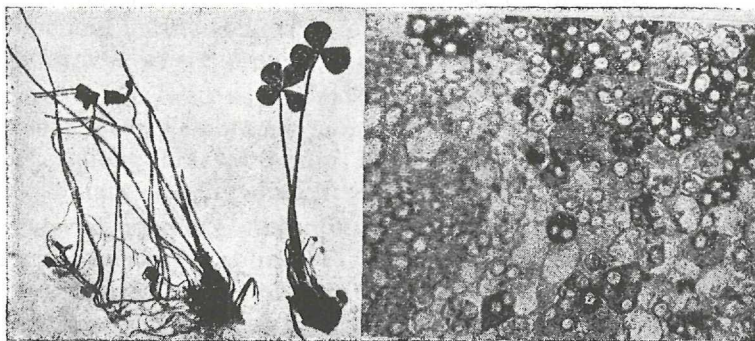
Some new or unreported fungi from West Pakistan.

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With 1 Textfig.

1. *Synchytrium Marsiliae* Lodhi sp. nov.

Infection occurs at the bases of the leaf petioles and in the rhizome resulting in pronounced swellings (Fig. 1 A). Infected leaves in most cases remain very much stunted in growth. The resting spores of the fungus occurs in the cells of the inner cortex and vary in



A B
Fig. 1. *Synchytrium Marsiliae*.

number from one to five in each cell (Fig. 1 B). The spores are nearly spherical, yellowish brown in colour, 18–29 μ in diameter; spore wall smooth, 1.25 μ in thickness.

Hab. on *Marsilea minuta* L. — Kalashak Kaku, 10—XI—1948; Chuharkana, 13—XI—1949, no. 2978, type.

Gallae ad basin petiolorum et in rhizomatibus plus minusve dense dispersae, minute verruciformes; folia infecta plerumque valde deformata; sporae 1–5 in cellulis corticis interioris oriundae, plus minusve globosae, luteo-brunneolae, 18–29 μ diam.; episporio levi, 1.25 μ crasso.

2. *Broomella vitalbae* (Berk. & Br.) Sacc. — Hab. On dead branches of *Clematis grata*. — Murree; Changla gali.

3. *Diaporthe decorticans* (Lib.) Sacc. & Roum. — Hab. On fallen branches of *Prunus cornuta*. — Kagan Valley: Shogran.

4. *Diatrype stigma* (Hoff.) de Not. — Hab. On dead branches of *Viburnum* sp. — Murree; Shogran.

5. *Amphisphaeria fallax* de Not. — Hab. On the bark of *Quercus dilatata*. — Murree.

6. *Lasio-sphaeria hirsuta* (Pers. ex Fr.) Ces. & de Not. — Hab. On old sporophores of *Lenzites betulina* and on rotten wood. — Murree.

7. ***Lasio-sphaeria disjuncta* n. sp.**

Perithecia gregarious, superficial, densely hairy all over; hairs very long, branched, septate, dark brown, 3.8—5 μ thick. Perithecia globose or subglobose, 354—472 μ in diameter; wall membranous, parenchymatous. Asci long-cylindric, 8-spored, 148.2—203.8 μ \Rightarrow 11.4—12.8 μ , with a uniformly thickened wall without any apical pore; stalk 59.5—85.5 μ in length. Ascospores fusiform, septate, dark brown, breaking at the septa into four segments at maturity, 22.8—32.5 μ \Rightarrow 3.8—5 μ . Pseudoparaphyses numerous, hyaline.

Perithecia gregaria, superficialia, dense pilosa, pilis longissimis, ramosis, septatis, obscure brunneis, 3.8—5 μ crassis obtecta, globosa vel subglobosa, 354—472 μ diam.; pariete membranaceo, pseudo-parenchymatico; asci cylindranei, in stipitem 59.5—85.5 μ longum attenuati, 8-sporei, 148.2—203.8 μ \Rightarrow 11.4—12.8 μ ; sporae fusioideae, septatae, obscure brunneae in maturitate in articulos singulos dilabentia, 22.8—33.5 μ \Rightarrow 3.8—5 μ ; pseudoparaphyses numerosae, hyalinae.

Hab. On dead. wood. — Changa manga, Lahore, 4. XI. 1950, no. 3034, type.

8. *Lasiobotrys butleri* Theiss. & Syd. — Hab. On leaves of *Lonicera* sp. — Quetta, leg. S. A. Malik.

9. *Nummularia Bulliardii* Tul. — Hab. On trunk of *Quercus incana* and *Q. dilatata*. — Murree; Dodder; Swat State: Kalam.

10. *Dothidea tetraspora* Berk. & Br. — Hab. On dead branches of *Hedera himalaicus*. — Murree.

11. *Dothidea collecta* (Schw.) Ell. & Ev. — Hab. on branches of *Sarcococca saligna*. — Murree.

12. *Cucurbitaria berberidis* (Pers.) Gray. — Hab. On dead branches of *Berberis Lycium*. — Murree; Kagan Valley: Shogran; Swat State:

13. *Lophiostoma macrostomoides* de Not. — Hab. On dead branches of *Berberis* sp. — Kagan Valley: Shogran.

14. *Platy-stomum compressum* (Pers. ex Fr.) Trev. — Hab. On dead branches of *Desmodium* sp. — Sharhan, Kagan Valley.

15. *Spilosticta geranii* (Fr.) Petr. — Hab. On leaves of *Geranium* sp. — Kagan Valley: Shogran.

16. *Spilosticta rumicis* (Desm.) Petr. — Hab. On leaves of *Rumex nepalensis*. — Kagan Valley: Shogran.

17. ***Leptomassaria Capparidis* n. sp.**

Perithecia solitary, inate-erumpent, globose or sub-globose, ostiolate, $187.5-225 \Rightarrow 172.5-225 \mu$, wall plectenchymatous, $5.4-7.2 \mu$ thick at the base but $9-14 \mu$ thick near the apex. Asci clavate, hyaline, tapering towards the base, 3-6 spored, $9-10.8 \Rightarrow 54-63 \mu$. Paraphyses numerous, long thin, hyaline, flexuose. Periphyses present. Ascospores oval, rounded at the ends, $5.4-7.2 \Rightarrow 9-12.6 \mu$, 1 or 2 in each ascus globose, 5.4μ in diameter, dark brown, enclosed within a $1.8-3.5 \mu$ thick mucilaginous sheath.

Hab. On dead branches of *Capparis aphylla* Roth., Changa Manga Forest, 29-10-50, no. 3029, type.

Perithecia solitaria, innato-erumpentia, globosa vel subglobosa, ostiolata, $187.5-225 \Rightarrow 172.5-225 \mu$ pariete plectenchymatico, ad basin $5.4-7.5 \mu$, in apice $9-14 \mu$ crasso; asci clavati postice attenuati, 3-6-sporei, $9-10.8 \Rightarrow 54-63 \mu$; paraphyses numerosae, hyalinae, filiformes, flexuosae; sporae ovoideae, utrinque rotundatae $5.4-7.2 \Rightarrow 9-12.6 \mu$, interdum globosae, tunc ca. 5.4μ diam., obscure brunneae, muco hyalino $1.8-3.5 \mu$ crasso obvolatae.

18. *Thekopsora areolata* (Fr.) Magn. — Hab. On cone scales of *Picea morinda*. — Kagan Valley: Shogran; Murree; Swat Staate: Kalam. Very common.

19. *Ravenelia sessilis* Berk. — Hab. On leaves and pods of *Albizia lebbek*. — Sialkot, 19-X-1952, leg. Shaukat Ali.

20. *Puccinia melasmoides* Transzsch. — Hab. On leaves of *Aquilegia pubiflora*. — Swat State: Mt. Ilam., 12-VIII-1952 (no. 4576).

21. *Puccinia turgida* Syd. — Hab. On leaves of *Lycium europaeum*. — Lahore.

22. *Puccinia tragopogi* (Pers.) Cda. — Hab. On leaves of *Tragopogon* sp. — Kagan Valley, 7-VII-1952, leg. I. I. Chaudhuri.

23. *Hyalopsora polypodii* (Diet.) Magnus. — Hab. On leaves of *Cystopteris fragilis*. — Kagan Valley: Naran, Batakundi.

24. *Phragmidium kamtschatke* (Anders.) Arth. & Cumm. — Hab. On leaves of *Rosa Eccae*. — Chitral, 23-VI-1950, leg. I. I. Chaudhuri.

25. *Puccinia absinthii* DC. — Hab. On leaves and branches of *Artemisia maritima*. — Chitral, 27-VI-1950, leg. I. I. Chaudhuri.

26. *Puccinia carduorum* Jacky. — Hab. On leaves of *Carduus nutans*. — Kagan Valley: Shogran, Batakundi; Swat State: Kalam.

27. *Puccinia eremuri* Kom. — Hab. On leaves of *Eremurus* sp. — Quetta, 22—IV—1948, leg. Said Ahmad Malik.

28. *Puccinia gentianae* (Str.) Link. — Hab. On leaves of *Gentiana kurroo*. — Abbottabad, April 1952, leg. I. I. Chaudhuri.

29. *Puccinia isiacae* (Thum.) Wint. — Hab. On leaves of *Phragmites karka*. — Quetta, 22—XI—1951, leg. Said Ahmad Malik.

30. *Uromyces geranii* (DC.) Othh. — Hab. On leaves of *Geranium* sp. — Swat State: Kalam.

31. *Phoma cassiae* Sacc. — Hab. On dead branches of *Cassia* sp. — Changa Manga.

32. *Pestalotia funerea* Desm. — Hab. On leaves of *Tarus baccata*. — Murree.

33. *Papularia sphaerospora* (Pers.) v. Hoehn. — Hab. On dead culms of *Bambusa* sp. — Changa Manga.

34. *Cercospora cannabina* Wakef. — Hab. On leaves of *Cannabis sativa*. — Lahore.

35. *Cercospora dubia* (Riess.) Wint. — Hab. On leaves of *Chenopodium album*. — Lahore.

36. *Cercospora blumeae* Thuem. — Hab. On leaves of *Blumea membranacea*. — Lahore.

37. *Microstroma juglandis* (Bd.) Sacc. — Hab. On leaves of *Juglans regia*. — Dodder.

38. *Myxofusicoccum prunicolum* (S. & R.) Died. — Hab. On dead branches of *Prunus* sp. — Kagan Valley: Shogran.

39. *Cryptocoryneum obovatum* Oud. — Hab. On pieces of dead wood. — Murree.

40. **Septogloeum Dalbergiae** Ahmad n. sp.

Acervuli innate-erumpent, scattered, 1.5—2 mm. in diameter. Conidiophores unbranched, septate, hyaline, bearing 1 or 2 spores at the tip, measuring upto $30 \approx 3 \mu$; conidia cylindric-fusoid, straight or curved, rounded at the apex but more or less truncate at the base, hyaline, 1—3-septate, $15-35 \approx 2.5-3 \mu$.

Hab. On pods of *Dalbergia sissoo* Ladhar, Sheikhpura District, 28—XII—1951, no. 4505, type.

Acervuli innato-erumpentes, dispersi, 1.5—2 mm diam.; conidia 1—2 acrogena, cylindraceo-fusoidea, antice rotundata, postice plus minusve truncata, recta vel curvula, hyalina, 1—3, septata, $15-35 \approx 2.5-3 \mu$; conidiophora simplicia, septata, hyalina, usque 30μ longa, 3μ crassa.

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