

Fungal Collections from Rajasthan State of India

I. Collections from Udaipur Region

By V. N. Pathak, S. R. Ahmed, P. C. Lodha and B. S. Saruparia
University Department of Plant Pathology College of Agriculture Udaipur,
India

Rajasthan is one of the biggest states of India. Surprisingly enough, there is no information available about the mycoflora of the state. To obtain this, mycological survey was undertaken and Udaipur region was selected at the outset, because of its interesting geological and meteorological aspects. This region is marked by big lakes surrounded by chain of mountains. Udaipur, from where the survey started is located at a height of 4315 ft above M. S. L. The place receives about 62 cm rainfall annually. In this region, where the temperature fluctuates from 13 to 35° C, maize, wheat, barley, sugarcane and groundnut are grown as important field crops. Many kinds of fruits and vegetables are also grown here.

Most of the isolations or collections listed below were identified or confirmed by the staff of Commonwealth Mycological Institute, U. K.

1. *Pythium aphanidermatum* (Edson) Fitzpatrick. From stem of *Carica papaya*. From Horticulture Orchard of Agriculture College. 14. Aug. 1967.
2. *Physotheria echinocloae* Thirum. & Whitehead. On leaves of *Echinochloa* sp. From College Farm 1. Oct. 1967.
3. — *maydis* Miyabe. On the leaves of *Zea maydis* from College Farm. 10. Oct. 1967; (IMI 129810).
4. — *pancratii* sp. nov. Pathak & Prasad. On leaves of *Pancreatium* sp. From Sahelion ki Bari. 15. Sept. 1967; (IMI 127416).
5. *Albugo ipomoeae* (Schw.) Swing. On leaves of *Ipomoea batatas*. From Goverdhan Vilas, a village near Udaipur. 15. Dec. 1967.
6. *Phytophthora colocasiae* Rac. On leaves of *Colocasia* sp. From a farm near Ahar. 2. Oct. 1967.
7. — *infestans* (Mont.) De Bary. On leaves of *Solanum tuberosum*. From personal garden of Dean of Agriculture College. 20. Feb. 1968.
8. *Sphaelotheca sorghi* (Link) Clinton. On cobs of *Sorghum vulgare*.
9. *Tilletia caries* (DC) Tul. On ears of *Triticum vulgare*. From College Farm. 8. Jan. 1967.
10. *Tolyposorium penicillariae* Brefeld. On ears of *Pennisetum typhoides*. From College Farm. 7. Oct. 1967.
11. *Ustilago kolleri* Wille. On ears of *Avena sativa*. From College Farm. 17. Feb. 1966.

12. *Ustilago maydis* (DC) Cda. On stem of *Zea maydis*. From College Farm. 15. Nov. 1967.
13. — *hordei* (Pers.) Lagerh. On ears of *Hordium vulgare*. From College Farm. 20. Mar. 1967.
14. — *tritici* (Pers.) Rorstr. On ears of *Triticum vulgare*. From College Farm. 20. Feb. 1967.
15. *Corticium solani* (Drill. & Delaor) Bourd. & Galz. From decaying stem of *Pothos* sp. From Botanical Garden. 9. June 1967; (IMI 128317).
16. *Melampsora lini* (Pers.) Lev. On leaves of *Linum usitatissimum*. From College Farm. 6. Feb. 1966.
17. *Puccinia cynodontis* (Sacc.) Niessl. On leaves of *Cynodon dactylon*. From College Farm. 2. Feb. 1967.
18. — *graminis* var. *tritici* (Pers.) Erikss. and Henn. On stem of *Triticum vulgare*. From College Farm. 1. Mar. 1967.
19. — *purpurea* Cke. On leaves of *Sorghum vulgare*. From College Farm. 5. Nov. 1967.
20. *Taphrina maculans* Butler. On leaves of *Curcuma longa*. From a personal Farm near Ahar.
21. *Cochliobolus heterostrophus* (Dreschl.) Dreschl. — Conidial stage. On leaves of *Zea maydis*. From Ahar Farm. 5. Oct. 1967; (IMI 129811).
22. *Erysiphe polygoni* DC. On leaves of *Pisum sativum*. From Botanical Garden. 4. Feb. 1967. — On leaves of *Vicia faba*. From College Farm. 1. Feb. 1967.
23. *Glomerella cingulata* (Stonem.) Spauld. & Schrenk. On leaves of *Nerium indicum*. From Samore Bagh. 1. Feb. 1968; (IMI 130985). — On leaves of *Alocasia lowii*. From Gulab Gardens. 27. Nov. 1966; (IMI 123880). — On leaves of *Aralia* sp. From Sahelion ki Bari. 1. Feb. 1968; (IMI 131476).
24. *Phyllachora cynodontis* (Sacc.) Niessl. On leaves of *Cynodon dactylon*. From College Farm. 27. Feb. 1967.
25. *Phyllactinia corylea* (Pers.) Karst. On leaves of *Delbergia sissu*. From Gulab Gardens. 3. Jan. 1967.
26. *Physalospora obtusa*. Conidial stage. On leaves of *Malus* sp. From a personal garden near Vidhya Bhawan. 10. Oct. 1967.
27. *Sphaerotheca pannosa* (Wallroth.) Lev. On pedicels of *Rosa indica*. From Botanical Garden. 5. Jan. 1967; (IMI 125089).
28. *Uncinula necator* (Schow) Burr. On leaves of *Vitis vinifera*. From a personal Vine Yard near Agriculture College. 30. July 1968.
29. *Ascochyta* sp. On leaves of *Cannabis sativa*. From Botanical Garden, College of Agriculture. 8. Nov. 1966; (IMI 118269).
30. — *jasmicola* Canonaco. On leaves of *Jasminum pubescence*. From Gulab Garden. 15. Aug. 1966; (IMI 118272).
31. *Bartalinia robillardoides* Tassi. On leaves of *Mimusops elengi*. Personal orchard of His Highness. 28. Nov. 1967; (IMI 123876).
32. *Botryodiplodia theobromae* Pat. On leaves of *Monstrea deliciosa*. From personal orchard of His Highness. 27. Nov. 1966; (IMI 123881).
33. *Colletotrichum capsici* (Syd.) Butler & Bisby. On *Capsicum annum*. From a farm near Banswara. 6. Nov. 1967. — On fruits of *Cannabis sativa*. From Botanical Gard. 8. Nov. 1966; (IMI 128315).
34. *Colletotrichum falcatum* Went. On leaves of *Saccharum officinarum*. From College Farm. 17. Nov. 1967.

35. *Diplodia natalensis* Pole Evans. On fruits of *Mangifera indica*. From Khushhal Bagh. 4. July 1967. — On fruits of *Citrus sinensis*. From local markets. 5. May 1967.
36. *Macrophoma flaccida* (Vial & Rav.) Cavara. On stem of *Vitis vinifera*. From a personal orchard near Agriculture College, Udaipur. 12. Mar. 1967; (IMI 132404 & IMI 132405).
37. *Microdiplodia* sp. On leaves of *Nephelium litchi*. From Gulab Gardens. 1. Feb. 1968; (IMI 130984).
38. — *microspora* (Otth.) Allesch. On leaves of *Sapindus emarginatus*. From a personal orchard of His Highness. 27. Nov. 1967.
39. *Phoma phyllantia* Fl. Tassi. On stem of *Phyllanthus emblica*. From a personal orchard near Agriculture College, Udaipur. 28. Feb. 1967; (IMI 132411).
40. *Phomopsis* sp. On leaves of *Jasminum pubescence*. From Botanical Garden. 18. Sep. 1966; (IMI 118270).
41. *Phyllosticta* sp. On leaves of *Dactyloctenium* sp. From College Farm. 10. Apr. 1967; (IMI 128314).
42. *Phyllostictina* sp. on *Phoenix rupicola*. From a personal Orchard of His Highness. 28. Nov. 1967; (IMI 123877). — On leaves of *Santalum album*. From personal orchard of His Highness. 26. Nov. 1966; (IMI 123883).
43. — *murrayae* Syd. On leaves of *Murraya koenigii*. From Gulab Gardens. 28. Nov. 1966; (IMI 123882).
44. — *tabernae montanae*. On leaves of *Taberna montana*. From College Garden. 10. Mar. 1966; (IMI 118271).
45. *Alternaria solani* Soranev. On fruit of *Lycopersicon esculentum*. From the personal garden of Dean, Agriculture College. 10. Jan. 1968; (IMI 131475).
46. — *tenius* Nees ex Pers. On leaves of *Lycopersicon esculentum*. From the personal garden of Dean, Agriculture College. 10. Jan. 1968; (IMI 131474). — On seeds of *Triticum vulgare*. From a local Grain Shops. 5. April 1967; (IMI 125874).
47. *Aspergillus flavus* Link ex Fr. From seeds of *Triticum vulgare*. From local Grain Shops. 8. April 1967; (IMI 125874).
48. — *niger* van Tiegh. From the soils of College Farm. 2. May 1967; (IMI 127586).
49. *Cephalosporium* sp. From the soils of Botanical Garden. 2. May 1967; (IMI 127582).
50. *Cercospora subsessilis* Syd. On leaves of *Melia azadirachta*. From Gulab Garden. 9. Sep. 1966; (IMI 123878). — On leaves of *Melia azadirachta*. From a personal orchard of His Highness. 28. Nov. 1967; (IMI 123878).
51. — *arachidicola* Horn. On leaves of *Arachis hypogaea*. From College Farm. 8. Dec. 1967.
52. — *personata* (Berk. & Curt) Ell. & Ever. On leaves of *Arachis hypogaea*. From College Farm. 10. Dec. 1967.
53. — *zinniae* Ell & Mart. On leaves of *Zinnia* sp. From Botanical Garden. 18. Sep. 1967; (IMI 129812).
54. — *traversiana* Sacc. On *Trigonella f. graceum*. From College Farm. 3. Mar. 1968; (IMI 131478).
55. *Gladospodium oxysporum* Berk. & Curt. From the soils of College Farm. 2. May 1967; (IMI 127597).
56. *Dactylium fusarioides* De Vries. From seeds of *Triticum vulgare*. From the local Grain Shops. 8. Apr. 1967; (IMI 125873).

57. *Fumago* sp. On leaves of *Musa* sp. From Gulab Gardens. 1. Jan. 1968; (IMI 130986).
58. *Fusarium moniliformae* Sheld. On seeds of *Sorghum vulgare*. From local grain shops. 5. Feb. 1967; (IMI 132410).
59. — *moniliforme* v. *subglutinans*. Wr. & Rg. From the soils of College Farm. 2. May 1967; (IMI 127577).
60. — *dimerium* Penzig. From the soils of a local farm. 2. May 1967; (IMI 127581).
61. — *solani* (Mart.) Sacc. From the soils of College Farm. 2. May 1967; (IMI 127575).
62. — *semitectum* Berk. & Rav. From the soils of College Farm. 2. May 1967; (IMI 127576).
63. *Gliocladium roseum* Bainier. From the soils of College Farm. 2. May 1967; (IMI 127587).
64. *Memnoniella levispora* Subram. On stem of *Sanchezia* sp. From Gulab Gardens. 6. Mar. 1968; (IMI 131477).
65. *Oidium lini* Skorik. On leaves of *Linum usitatissimum*. From the Botanical Garden. 10. Jan. 1967.
66. — *mangiferae* Berthet. On inflorescence of *Mangifera indica*. From Mehta ki Bari. 8. Mar. 1968.
67. *Paecilomyces persicinus* Nicot. From the soils of College Farm. 2. May 1967; (IMI 127571).
68. — *variottii* Bainier. From seeds of *Triticum vulgare*. From local grain shops. 8. Apr. 1967; (IMI 125875).
69. *Penicillium variabile* Sopp. From the seeds of *Triticum vulgare*. From local Grain Shops. 8. April 1967; (IMI 125879).
70. *Rhizoctonia* sp. On tubers of *Solanum tuberosum*. From local markets. 2. Mar. 1968.
71. *Trichoderma viride* Pers. ex S. F. Grey. From the soils of Botanical Garden. 2. May 1967; (IMI 127567).
72. — *polykporum* (Link ex Fr.) Rifai. From the soils of College Farm. 2. May 1967; (IMI 127573).

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Autor(en)/Author(s): Pathak V. N., Ahmed S. R., Lodha P. C., Saruparia B. S.

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