

Short Communication

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Coprophilous Fungi of Pakistan

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Sixteen species belonging to eleven genera of Hyphomycetes are reported for the first time from Pakistan on dung substrate which include *Ulocladium chartarum* (Preuss) Simmons, *Acremonium strictum* Gams and *Phoma exigua* Desm.

The term coprophilous is applied to fungi which grow on dung. Vavions workers contributed to the knowledge of coprophilous fungi of this region [1-4, 6-15]. In previous papers of this series, Ahmed and Fatima reported 50 species. The majority of which belonged to Ascomycetes while very small number of them were Hyphomycetes.

Samples of goat and cow dung were collected from Malir city and Landhi, parts of these samples were thoroughly moistened and placed in glass trough which were made by placing a moist filter paper at the bottom of a glass trough about six inches diameter and putting wet wood shaving on it. Before placing the wet dung substrate another moist filter paper was placed above the wood shaving. The whole system was covered by a glass lid and examined twice a week for a period of three months, pure cultures were obtained on Czapek's agar from the colonies growing on the dung substrate.

List of Phycomycetes

1. *Acremonium strictum* W. Gams. On goat dung, Malir city, 15.1.72 No.24 (IMI.166055 a), F. Asad, U.S.S.R., Pakistan, India, Panama, U.K., Germany Indonesia, Isreal and Newzealand.

2. *Alternaria alternata* (Fr.) Keissler. On goat dung, Malir city, 15.1.72, No.2, (IML 166038); F. Asad, Austria, Canada, Japan, Pakistan, India, Germany, U.K., and U.S.A.

3. *Aspergillus flavipes* (Bain, and Sart.). Thom and Church. On goat dung, Malir city, 24.11.71. No.10, (IMI. 166045) A. Masood, Egypt, India, China, Pakistan, Canada and USA.

4. *Aspergillus fumigatus* Fres. On goat dung Malir city, 5.4.71, No.16, (IMI.166061) A. Masood, England, Pakistan, India, Canada, China, Japan, and USA.

5. *Aspergillus nidulans* (Eidam) Wint. On goat dung, Landhi, 5.4.71. NO.9, (IMI. 166044 a) A. Masood, Japan, Pakistan, India, England, Canada, U.S.S.R. and U.S.A.

6. *Aspergillus terreus* Thom. On goat dung, Malir city, 5.4.71, No.8, (IMI. 166062), A. Masood, Pakistan, India, Switzerland, Japan, U.S.A and Egypt.

7. *Aspergillus ustus* (Bain) Thom and Church. On cow dung, Malir city, 5.4.71, No.24b (IMI 166055) A. Masood, Pakistan, India, California, U.S.A. England and Canada.

8. *Aspergillus versicolor* (Vuill) Tiraboschi. On cow dung, Malir city, 5.4.71, No.21, (IMI. 166060) A. Masood, Pakistan, India, China, Japan, England, Egypt, Canada and Malaysia.

9. *Botryodiplodia theobromae* Pat. On goat dung, 15.1.72, Malir city, No.161, (IMI. 167226), F. Asad, Pakistan, India, Canal zone, England, USA and Bangladesh.

10. *Cladosporium sphaerospermum* Penz. On goat dung, 15.1.72, Malir city, No.17, (IMI. 166052), A. Masood, Pakistan, India, California, England, Japan, Egypt and Malaysia.

11. *Fusarium solani* (Mart.) Sacc. On cow dung, 5.4.71, Malir city, No.46, (IMI. 166071), A. Masood, Pakistan, India, Egypt, Switzerland, England and U.S.A.

12. *Macrophomina phaseolina* (Tassi) Goid. On cow dung, 5.4.71, Malir city, No.41, (IMI. 166068), A. Masood, Pakistan, India, California, Egypt, England, Japan, Malaysia and Turkey.

13. *Penicillium chrysogenum* Thom. On goat dung, 15.1.72, Malir city, No.15, (IMI. 166046), F. Asad, Pakistan, India, China, Japan, England, U.S.A. and Canal zone.

14. *Phoma exigua* Desm. On goat dung, 15.1.72, Malir city, No.15, (IMI. 166069), A. Masood, Pakistan, India, Saudi Arabia, England and U.S.A.

15. *Penicillium rubrum* Stoll. On goat dung, 15.1.72, Malir city, No.34, (IMI. 166063), Pakistan, India, Malaysia, Indonesia, Turkey and Iran.

16. *Ulocladium chartarum* (Preuss) Simmons. On goat dung, 15.1.72, Malir city, No.8f. (IMI. 166056 b), F. Asad, Pakistan, India, Iraq, Isreal, Saudia Arabia, Bangladesh and U.S.A.

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