

Aspergilli from Soil of Lahore and Vicinity

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Species of *Aspergillus* form the most common group of fungi as they can colonize a wide variety of substrates. *Aspergillus* is a genus of anamorphic fungi reproducing mainly by production of Phialospores (Bayman and Cotty, 1991). Nomenclatural problems of the genus *Aspergillus* also arise from their pleomorphic life cycle.

Few serious and systematic efforts have been made to survey and study Aspergilli of Pakistan. From the Sub-continent, Chaudhari and Umar, (1938) reported 12 species of *Aspergillus* for the first time from the soil of Punjab. Ahmad, (1956) in his monograph "Fungi of Pakistan" has reported 33 species of *Aspergillus*, 4 of *Emericella*, and 1 of *Eurotium*. Mirza and Hussain (1966) reported seven species of *Aspergillus* from the soil of Lahore. Ahmad, (1967) reported 14 further species of *Aspergillus* from soil of Lahore. Mirza and Qureshi (1978), in their compilation of "Fungi of Pakistan" included 57 species of *Aspergillus*, 4 of *Emericella*, and 2 species of *Eurotium* from whole of Pakistan. Later in 1997 Ahmad *et al.*, revised the Fungi of Pakistan and included in it 58 species of *Aspergillus*, 9 of *Emericella*, 4 of *Eurotium* and one species of *Sartorya*.

In the present study, 15 species of *Aspergillus* are recorded from Lahore and vicinity of which three spp. i. e. *A. crystallinus*, *A. melleus* and *A. versicolor* are reported for the first time from Pakistan. A list of species follows with isolates examined.

1. *Aspergillus candidus* Link, 1809. Observationes in ordines plantarum naturales. Gesellschaft Naturforschender Freunde zu Berlin, Magazin **3**: pp16.
Lahore, 25.11.03 (FCBP 220)
2. *Aspergillus crystallinus* Kwon & Fennell, in Raper, K.B. and Fennell D. I., 1965. The genus *Aspergillus*. The Williams & Wilkins Co., Baltimore. pp 471-473.
Kasur, 28.6.05. (FCBP 493)
3. *Aspergillus fumigatus* Fresenius, 1863. Beitrage zur Mykologie, pp 81., Frankfurt.
Lahore, 4.6.03 (FCBP 013)
4. *Aspergillus melleus* Yukawa, 1911. Zwei neue *Aspergillus* arten aus Katsuoobushi." J. Coll. Agr. Imp. Univ. Tokyo **1(1)**: 366.
Lahore, 17.5.03. (FCBP 020)
5. *Aspergillus nidulans* (Eidam) Wint. 1884. Rabenh. Krypt. FI. **I(2)**: 62
Lahore 6.04.04. (FCBP 0254); Lahore, 4.6.03 (FCBP 014)
6. *Aspergillus niger* Van Tieghem 1867. Ann. Sci. Nat. Botan., Ser. 5, **8**: 240
Lahore, 10.03.04 (FCBP 414); Lahore, 23.2.06 (FCBP 605); Okara, 06.04.04 (FCBP 419); Lahore 2.5.03 (FCBP 02)
7. *Aspergillus niveus* Blochwitz, 1929. Die gattung *Aspergillus*. Neue Spezies. Diagnosen. Synonyme. Ann. Mycol. **27**: 205-206.
Lahore,.10.6.03 (FCBP 025).
8. *Aspergillus oryzae* (Ahlburg) Cohn, 1883. Jahresber. Schles. Ges. Vaterl. Kultur. **61**: 226
Lahore, 2.5.03 (FCBP 01).
9. *Aspergillus ostianus* Wehmer, 1899. Ueber einige neue *Aspergillus* arten. Botan. Centr. **80**: 449-461
Lahore, 15.5.03 (FCBP 09)
10. *Aspergillus puniceus* Kwon & Fennell, in Raper, K.B. and Fennell D. I., 1965. The genus *Aspergillus*. The Williams & Wilkins Co., Baltimore. pp 547-550
Lahore, 15.5.03 (FCBP 08)
11. *Aspergillus sclerotiorum* Huber, 1933. *Aspergillus sclerotiorum* n. sp., and its relation to decay in apples. Phytopathology. **23**: 306-308.
Lahore, 4.6.03 (FCBP 015)
12. *Aspergillus terreus* Thom, and Church, 1918. *A. fumigatus*, *A. nidulans*, *A. terreus* n. sp. and their allies. Am. J. Bot. **5**: 85-86.

- Lahore, 1.7.03. (FCBP 059); Lahore, 28.6.03. (FCBP 058)
13. *Aspergillus unilateralis* Thrower, 1954. *Austr. J. Bot.* **2**: 355-364
Kasur, 28.6.05. (FCBP 513)
 14. *Aspergillus ustus* Thom, and Church, 1926. *The Aspergilli*. Williams & Wilkins Co., Baltimore., pp. 272.
Lahore, 17.5.03 (FCBP 019).
 15. *Aspergillus versicolor* (Vuill.) Tiraboschi, 1926. in Thom and Church, *The Aspergilli*, Williams & Wilkins Co., Baltimore. pp. 142-144
Kasur, 28.6.05. (FCBP 505)

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