

## ADDITION TO SEED-BORNE MYCOFLORA OF FENUGREEK (*TRIGONELLA FOENUM-GRAECUM* L.)

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Fenugreek (*Trigonella foenum-graecum* L.) used as a condiment is well known for its alkaloids trogonelline, cholesterolin, lecithin and choline. Fenugreek has also been used as a green manure for the control of *Verticillium dahliae*, wilt of cotton (Askarova & Golovchenko, 1962). In the present study, the seed-borne mycoflora of fenugreek has been examined and compared with that given in the Annotated List of Seed-borne Diseases (Richardson, 1979, 1981, 1983) and that of Hashmi (1988) and Khan *et al.* (1974) where a total of 11 genera and 16 species of fungi have been reported.

Using Standard Blotter (ISTA, 1966) and Deep Freezing Methods (Limonard, 1968), 10 seed samples of fenugreek collected from different parts of Karachi region were analyzed. Of the 14 genera and 24 species of fungi *Aspergillus candidus*, *A. fumigatus*, *A. parasiticus*, *A. versicolor*, *Cephalosporium acremonium*, *Chaetomium bostrychodes*, *C. globosum*, *Cladosporium* sp., *Fusarium proliferatum*, *Paecilomyces* sp., and *Scopulariopsis* sp., appear to be new reports on fenugreek from Pakistan.

### References

- Anonymous, T. 1966. International Rules for Seed Testing, *Proc. Intl. Seed Test. Assoc.*, 31: 1-152
- Askarova, S.A. and S.G. Golovchenko, 1962. On the question of biological methods for the control of cotton wilt. *Uzbek, Biol. Zh.*, 5: 88-12 (RAM 42: 386).
- Hashmi, M.H. 1988. Seed-borne mycoflora of fenugreek. *Pak. J. Bot.*, 20: 233-237.
- Khan, S.A., S.B. Mathur and P. Neergaard 1974. Survey of new seed-borne organisms of different important crop seeds from Pakistan. *Abst. Pak. Sci. Conf. D.*, pp. 53-55.
- Khan, S.A., S.B. Mathur and P. Neergaard 1974. Survey on new seed-borne organisms of Pakistan. *Seed Sci. & Tech.*, 2: 477-479
- Limonard, T. 1968. Ecological aspect of health testing. *Proc. Intl. Seed Test. Assoc.*, 33: 71-73
- Richardson, M.J. 1979. *An Annotated List of Seed-borne Diseases*. Intl. Seed Test. Assoc. Zurich, Switzerland. 320 pp.
- Richardson, M.J. 1981. *An Annotated List of Seed-borne Diseases*. Suppl. 1. Intl. Seed Test. Assoc. Zurich, Switzerland. 78 pp.
- Richardson, M.J. 1983. *An Annotated List of Seed-borne Diseases*. Suppl. 2. Intl. Seed Test. Assoc. Zurich, Switzerland. 108 pp.

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