

CHARACTER ASSOCIATION STUDY IN *LINUM USITATISSIMUM* L.

Rajesh Kumar Jain

SIRDA Group of Institutions, Sundernagar, H.P, India

Email-duggarjain@yahoo.co.in

Abstract: The economic yield showed highly significant positive correlation coefficient with flower length, flower breadth, seed length and pollen grain number per anther per flower. The pollen tube length showed highly significant and positive correlation coefficient with male and female reproductive organ length.

Keywords: Linseed, Character association

REFERENCES

- Akinyele, B.O.; Osekita, O.S.** (2006). Correlation and path coefficient analyses of seed yield attributes in okra (*Abelmoschus esculentus* (L.) Moench). *African Journal of Biotechnology*, **5** (14):1330-1336.
- Berhe, A.; Bejiga, G.; Konnen, D.** (1998). Association of some characters with seed yield in local varieties of faba bean. *African Crop Science Journal*, **6** (2):197-204.
- Brunet, J.; Eckert, C.G.** (1998). Effects of floral morphology and display on outcrossing in blue columbine, *Aquilegia caerulea* (Ranunculaceae). *Functional Ecology*, **12**: 596–606.
- Fisher, R.A.; Yates, F.** (1938) . Statistical tables for biological agricultural and medical research (ed.) Longman Group London
- Holtsford ,T. P.; Ellstr, N.C.** (1992). Genetic and environmental variation in floral traits affecting outcrossing rate in *Clarkia tembloriensis* (Onagraceae) . *Evolution* , **46** : 216–225.
- Hyesoon, K.; Primack, R.B.** (1991). Temporal Variation of Flower and Fruit Size in Relation to Seed Yield in Celandine Poppy (*Chelidonium majus*; Papaveraceae). *American Journal of Botany*, **78** (5): 711-722.
- Kathryn, A.; Spencer, C.; Barrett, H.** (2008) . Natural selection on floral traits through male and female function in wild population of the heterostylous Daffodil *Narcissus triandrus*, *Evolution*:10.1111/j.1558-5646. (Online Accepted)
- Mahto, R.N.; Mahto, J.L.** (1977). Correlation regression and path coefficient analysis in rainfed linseed. *Madras Agriculture Journal*, **84**: 188-191.
- Motten, A.F.; Stone, J.L.** (2000). Heritability of stigma position and the effect of stigma-anther separation on outcrossing in a predominantly self-fertilizing weed, *Datura stramonium* (Solanaceae). *Am. J. Botany*, **87**: 339–347.
- Rao, S.K.; Singhal, S.K.** (1983). Analysis of yield factors in segregating population and their implication in selection of flax. (*Linum usitatissimum*). *Canadian Journal of Genetic and Cytology*, **25**: 495-501.
- Rick, C.M.; Fobes, J.F.; Holle, M.** (1977) . Genetic variation in *Lycopersicon pimpinellifolium*: evidence of evolutionary change in mating systems. *Plant Systematics and Evolution* , **127** :139–170.
- Schoen, D.J.** (1982a). The breeding system of *Gilia achilleifolia*, variation in floral characteristics and outcrossing rate. *Evolution*, **36**: 352–360.
- Searle, S.R.** (1961). Phenotypic, genotypic and environmental correlation. *Biometrics*, **17**: 474-480.
- Srivastavam, H.C.; Devaiah, K.A.** (1988). Correlation and path analysis in jasmine. *Plant Breeding*. **100**: 235-237.
- Sukchain,; Sidhu, B.S.**(1992). Correlation and path coefficient analysis for reproductive traits in guinea grass (*Panicum maximum jacq*). *Euphytica*, **60**: 57-60.

Verma, A.; Sinha, K.; Mahto, J.L. (1994). Correlation studies between yield and some components in linseed. *National Symposium*

on Frontiers in Plant Science Research.
February 13-14, 1994,129 PP(Abstract).