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## Correlation and path analysis studies in double type tuberose

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**ABSTRACT :** Genetic variability studies in tuberose were carried out among 5 varieties for 12 characters at Botanical gardens, Tamil Nadu Agricultural University, Coimbatore during the year 2011-2013. In genotypic and phenotypic levels, weight of florets per spike exhibited positive relationship with yield of florets per plot ( $4 \times 1$  m) (0.965) and number of spikes per  $m^2$  (0.534). Positive and significant association was also observed for number of spikes/  $m^2$  with yield of florets per plot ( $4 \times 1$  m) (0.565). The maximum positive direct effect on number of spikes per  $m^2$  was contributed by weight of florets per spike (0.6378) followed by number of leaves per plant (0.5782), flowering duration (0.3756), rachis length (0.2779), days taken for sprouting of bulb (0.2580), length of the floret (0.2277) and days to spike emergence (0.0213). Hence, the characters *viz.*, weight of florets per spike, number of leaves per plant, flowering duration, rachis length, days taken for sprouting of bulb, length of the floret and days to spike emergence had significant positive correlation co-efficients and positive direct effects on yield which formed reliable indices for selection of genotypes for yield.

**KEY WORDS :** Tuberose, Double types, Correlation, Path analysis

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