

## **Correlation studies for different characters with fruit yield per plant in cucumber (*Cucumis sativus* L.)**

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**ABSTRACT :** Fruit yield per vine had positive and highly significant association with number of seeds per fruit, average fruit weight, sex ratio and 100 seed weight. Days to first male flower was positively and significantly associated with average fruit weight and number of days to first harvest and it was negatively and significantly associated with flesh thickness and number of leaves per plant on 90 DAS. Flesh thickness was positively and significantly associated with fruit length and number of leaves on 90 DAS and it had negative and significant association with days to first male flower and Sex ratio was positively and highly significantly associated with days to first male flower and it was negatively and highly significantly associated with number of leaves on 90 DAS. Number of days to first harvest was positively and significantly associated with days to first female flower. Correlation studies revealed that yield can be improved by selecting the genotypes with more number of seeds per fruit, high average fruit weight, better sex ratio and greater hundred seed weight.

**Key Words:** Cucumber, correlation, sex ratio, fruit yield.