

# Character Association Studies for Yield, Kernel Iron and Zinc Content in Groundnut (*Arachis hypogaea* L.)

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## ABSTRACT

The field experiment was conducted at Dry land farm, Regional Agricultural Research Station (RARS), Tirupati during *rabi*, 2022-23 to study the correlation analysis for yield, kernel iron and zinc content in groundnut. Hundred groundnut genotypes along with four checks were considered for evaluating eleven traits which include kernel yield plant<sup>-1</sup>, pod yield plant<sup>-1</sup>, 100 pod weight, 100 kernel weight, kernel mass, shelling percentage, sound mature kernel percentage, kernel length, kernel breadth, iron and zinc content by selecting randomly five competitive plants in each genotype. Character association studies revealed that pod yield plant<sup>-1</sup> showed positive and significant association with kernel yield plant<sup>-1</sup> moreover, 100 pod weight, 100 kernel weight, kernel mass, shelling percent and kernel breadth showed significant and positive correlation with iron content. Shelling percent showed negative correlation with zinc content. Hence, these pod and kernel related traits can be directly used to improve the kernel iron content in groundnut.

**Key words:** *Checks, Character association, Groundnut and Yield*