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RESEARCH PAPER

# Correlation analysis in advanced breeding lines of grasspea for yield and its attributing character with neurotoxin ODAP content

**JASPREET KOUR**
Indira Gandhi Agricultural University, RAIPUR (C.G.) INDIA
(Email: kourjassi.kour@gmail.com)

## ABSTRACT

Eighteen advanced breeding lines with their five parents were evaluated for their yield and yield attributing characters, protein and β-ODAP (β-*N*-oxalyl-L-α, β-diaminopropionic acid) at different growth stages. The correlations between traits were investigated and, positiveand significant correlations were found among seed yield,number of seeds/plant and number of pods/plant. β-ODAP content at different stage shows no and negative correlation with seed yield and protein content.Seed protein content shows negative or no correlation with seed yield and β-ODAP at different growth stage. Therefore, it can be said that development of higher yielding grasspea lines with low β-ODAP and high protein content is possible.

**Key Words :** Advanced breeding lines, Grasspea, Yield, Neurotoxin, ODAP

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