



RESEARCH PAPER

Studies on seed quality parameters in Indian mustard [*Brassica juncea* (L.) Czern and Coss]

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Abstract : An evaluation of thirty two accessions of Indian mustard [*Brassica juncea* (L.) Czern and Coss] was carried out during 2014-2015 in Completely Randomized Design (CRD) with three replications in Laboratory revealed highly significant differences among the accessions for all seed vigour traits. Observations were recorded on ten seed vigour traits viz., 1000-seed weight (g), field emergence (%), speed of germination (at field), germination, speed of germination, root length (cm), shoot length (cm), seedling length (cm), seedling dry weight (mg) and vigour index. Highly significant differences were observed among the genotypes for all the seed vigour traits. The phenotypic co-efficient of variability (PCV) were close to genotypic co-efficient of variability (GCV) for more of the traits which indicate that environmental effect has no considerable effect on the total phenotypic variation. Heritability and genetic advance indicated that the nature action and reliability or those characters for selection and emerged as ideal traits for improvement through selection.

Key Words : Indian mustard, Co-efficient of variations, Genetic advance, Heritability, Seed vigour

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