Effect of size and ageing on sinapine leakage, electrical conductivity and germination percentage in the seed of mustard (Brassica juncea L.)

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Studies were made on sinapine leakage, electrical conductivity of seed leachate and percentage germination and field emergence of the seed of mustard cv. Pusa Bold. Seed size and ageing significantly influenced all the four parameters of the seed quality. However, the interaction (storage ´ seed size) effect was significant for sinapine leakage and electrical conductivity only, because the sinapine leakage was not able to detect ageing effect in small and very small seeds and the electrical conductivity was not able to determine ageing effect in large seeds. Sinapine leakage was found to be a better predictor of percent germination and field emergence than electrical conductivity.