

Effect of Chemicals and Temperatures on Breaking Seed Dormancy in Kakrol (*Momordica dioica* Roxb.)

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ABSTRACT

The studies on the effect of different chemicals on breaking seed dormancy in kakrol seeds revealed that among the different chemicals and their concentrations, the seeds treated with GA₃ 100 ppm gave early and higher percentage of germination, seedling length, seedling girth, vigour index and percentage of establishment in polythene bags. Between two temperatures, controlled temperature (30°C) recorded the higher percentage of germination (51.55), seedling length (14.87 cm), seedling girth (0.69 cm), vigour index (771.30) and percentage establishment in polythene bags (83.41). The interaction between chemicals x temperatures revealed that GA₃ 100 ppm + controlled temperature (30°C) recorded early germination (11.44 days) and significantly higher percentage of germination (70.64), seedling length (16.50 cm), vigour index (1165.33) and percentage of establishment in polythene bags (93.33).

Key words : Chemicals, Kakrol, Seed dormancy