



RESEARCH ARTICLE :

Chench (*Corchorus acutangulus* Lam.) seed germination under the influence of different temperature regimes

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SUMMARY : Temperature greatly influences germination of the seeds. Most of the varieties lack the ability to sustain temperature stress with significant differences for germination and related traits. Laboratory investigations were conducted to determine the effect of different temperature regimes on germination traits of various chench (*Corchorus acutangulus* Lam.) genotypes at Department of Genetics and Plant breeding, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.) during 2015. Seeds of forty six genotypes were tested for germination and related traits under three temperature regimes (10, 20 and 30°C) in germinator. The increase in temperature significantly enhanced germination and related traits. All the chench genotypes germinated well (80-97%) sown at 20-30°C, whereas, shoot length was maximum in IGCB-2015-14 and IGCB-2013-2 sown at 30 and 20°C, respectively. Root length, including seed vigor index were maximum with increasing temperature. The maximum seed germination, vigor index occurred at 20-30°C and these temperature regimes were identified as optimum for chench seed germination.

KEY WORDS :

Chench, Temperature, Germination, Genotypes

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