International Journal of Agricultural Sciences
Volume 12 | Issue 2 | June, 2016 | 223-226 ■ e ISSN-0976-5670
DOI:10.15740/HAS/IJAS/12.2/223-226
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RESEARCH PAPER

Effect of growing condition and spacing on seed quality parameters in hybrid seed production of brinjal (*Solanum melongena* L.) under shade house and open field condition

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Abstract : Present investigation was undertaken in order to know the effect of growing condition and spacing on seed quality parameters in hybrid seed production of brinjal. A field experiment was carried out at the Hi-tech Horticulture Unit, Saidapur Farm, University of Agricultural Sciences, Dharwad during *Kharif* 2012-2013 and seed quality parameters were conducted in the Seed Quality and Research Laboratory, Seed Unit, University of Agricultural Sciences, Dharwad. There were two growing conditions *viz*., open field (G_1) and shade house (G_2) condition with four levels of spacing (S_1 = 60 × 45, S_2 = 60 × 60, S_3 = 60 × 75 and S_4 = 60 × 90 cm) and it comprised of eight treatments with three replications in Randomized Block Design in factorial concept. Between two growing condition, shade house grown condition recorded significantly higher germination (82.8%) and vigour index (1426) as compared to open field condition. Among the spacings better seed quality traits were recorded with 60 × 75 cm spacing.

Key Words : Brinjal, Growing condition, Spacing, Seed germination, Vigour index

View Point Article : Deshi, Mainavati and Patil, N.K. Biradar (2016). Effect of growing condition and spacing on seed quality parameters in hybrid seed production of brinjal (*Solanum melongena* L.) under shade house and open field condition. *Internat. J. agric. Sci.*, **12** (2) : 223-226, **DOI:10.15740/HAS/IJAS/12.2/223-226.**

Article History : Received : 16.01.2016**; Revised :** 15.02.2016**; Accepted :** 18.04.2016

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