

Supplementary Material



In-Vitro Management of Phytohormones for Micropropagation of Sugarcane

Amna Qazi¹, Ghulam Shah Nizamani^{2*}, Muhammad Tahir Khan², Shafquat Yasmeen², Shahla Karim Baloch¹, Muharram Ali¹, Imtiaz Ahmed Khan², Sagheer Ahmad³, Muhammad Rashid Nizamani⁴ and Mohammad Aquil Siddiqui²

¹Department of Biotechnology, Sindh Agriculture University, Tandojam, Pakistan; ²Biotechnology Group, Nuclear Institute of Agriculture (NIA), Tandojam, Pakistan; ³Pakistan Agriculture Research Council (PARC), Islamabad, Pakistan; ⁴College of Forestry, Northwest A and F University, Yangling, China.

Received | April 11, 2019; Accepted | November 20, 2019; Published | March 03, 2020

*Correspondence | Ghulam Shah Nizamani, Biotechnology Group, Nuclear Institute of Agriculture (NIA), Tandojam, Pakistan; Email: nizamanigs@gmail.com

Citation | Qazi, A., G.S. Nizamani, M.T. Khan, S. Yasmeen, S.K. Baloch, M. Ali, I.A. Khan, S. Ahmad, M.R. Nizamani and M.A. Siddiqui. 2019. In-vitro management of phytohormones for micropropagation of sugarcane. *Pakistan Journal of Agricultural Research*, 33(1): 180-191.

DOI | <http://dx.doi.org/10.17582/journal.pjar/2020/33.1.180.191>

Keywords | Sugarcane, Tissue culture, *In vitro*, Micropropagation, Growth regulators, Hormones

Supplementary Table 1. Analysis of variance for days to shoot initiation, number of shoots (per bottle), shoot length and number of leave (per bottle).

Source of variation	DF [†]	Days to shoot initiation per bottle	Number shoots per bottle	Shoot length per bottle (cm)	Number of leave per bottle
Replications	2	0.135	0.03125	0.3626	1.07292
Varieties (V)	7	16.685**	1.37500**	11.5196**	0.61905ns
Concentrations (C)	3	171.125**	2.73611**	26.1501**	3.27778**
V x C	21	11.450**	0.33929ns	2.8471ns	0.43651ns
Error	62	2.727	0.55813	1.5569	0.57829

[†]: Degree of freedom; ns: non-significant; *: Significant; **: Highly significant.