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PLANT GROWTH REGULATORS MEDIATED GROWTH AND YIELD ENHANCEMENT OF BITTER GOURD (*MOMORDICA CHARANTIA L.*)

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A field experiment was conducted with an aim to enhance the growth and yield of bitter gourd (*Momordica charantia L.*) at SHUATS, Allahabad. The results indicated that all the treatments enhanced the growth and yield compared to control. Amongst different treatments and their combinations it was observed that the combined effect of GA3 and NAA was significantly better over individual treatments. The foliar spray of GA3 @ 60 ppm together with NAA @ 100ppm showed significantly higher growth and yield except for days to flower initiation and days to fruit maturity which were better at GA3 @ 60 ppm + NAA @ 50 ppm and GA3 @ 40 ppm + NAA @ 100 ppm respectively.

BIOGRAPHY

Suchit Ashish John is an associate professor in the Department of Biological Sciences, Sam Higginbottom University of Agriculture, Technology & Sciences, Allahabad, Uttar Pradesh, India. Engaged in teaching and research, at the Department of Biological Sciences for last 17+ years. Established a multi-disciplinary, comprehensive research in the area of mitigation of plant stress (biotic & abiotic) through PGRs, PGPRs, biopesticides, organic agriculture and development of environment friendly 'stress busters' for plants. Successfully guided over 80 masters and PhD scholars. Authored and co-authored over 45 peer reviewed research papers apart from book chapter, refereed research articles, bulletins and press reports. Resource person for workshops, winter and summer schools. Invited for presentations at different science and research programs at China, Malaysia, Singapore, Indonesia and India. Also been rapporteur for numerous seminars and workshops. Active life member of renowned national and international societies.

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