

# International Conference on Agricultural & Horticultural Sciences

September 14-15, 2012 Hyderabad International Convention Centre, India

## Evaluation of V2M1 generation of Jasminum sambac cv. Gundumalli (Ait)

**Saranraj N and M Kannan**

Department of Floriculture and Landscaping, Horticultural College and Research Institute, Tamil Nadu Agricultural University, India

A field trial was carried out at the Department of Floriculture and landscaping, Horticultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore from June 2009 to May 2010 to evaluate the V<sub>2</sub>M<sub>1</sub> generation of Jasminum sambac cv. Gundumalli, forwarded from V<sub>1</sub>M<sub>1</sub> generation. Variability studies on the V<sub>2</sub>M<sub>1</sub> population revealed that the mutation induction produced maximum GCV along with high heritability and genetic advance estimates for morphological traits viz., plant height, number of secondary and tertiary branches, floral characters viz., corolla tube length, flower bud length, flower bud width exhibited low GCV, where as number of flower buds per plant registered high GCV. High heritability with low genetic advance was observed for floral characters viz., flower bud length and flower bud weight where as high heritability with high genetic advance observed for number of flower buds per plant and yield of flower buds per plant.

Saranraj26@rediffmail.com