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Studies on hybridization in tuberose

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Abstract

A study on hybridization in tuberose by both selfing and crossing techniques were carried out under open field condition at Tamil Nadu Agricultural University, Coimbatore. The ten single genotypes of tuberose were used for this study *viz.,* Calcutta Single, Hyderabad Single, Kahikuchi Single, Mexican Single, Navsari Local, Phule Rajani, Prajwal, Pune Single, Shringar and Variegated Single. Fruit set was noticed in all selfed and crossed genotypes on seven days after pollination. But the results of selfing study revealed that after ten days of pollination, the fruits dropped in all genotypes. This shows the presence of complete self-incompatibility. Successful seed set was resulted in most of the crosses by using Variegated Single as a pollen parent on three months after crossing. Cross incompatibility was also noticed in few crosses of the above genotypes.

Key words: Tuberose- hybridization- selfing and crossing- incompatibility

Biography

P. Ranchana is doing her PhD program in the Department of Floriculture and Landscaping, Tamil Nadu Agricultural University, Coimbatore. She has published more than 10 papers in reputed journals and working as a Senior Research Fellow in the GOI scheme entitled “Validation of DUS testing guidelines for jasmine”. She has attended and presented papers in both national and international conference.