

any breeding program. Haploid plants are valuable in inducing homozygosity of the recessive gene, which result in expressing of such traits.

The ultimate goal of this study is to establish haploid plants of navel and Khalili oranges for production of genetically purified parental plants function in starting a breeding program valuable in improving these oranges. Also, finding out the most suitable medium type, state, and strength as well as the additives for establishing, proliferating, and rooting of these plants. In addition, the effect of gamma irradiation with different doses on callus development and plantlets was involved.

