Investigating the percentage of pollen germination in nine citrus cultivars

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In this study, percentage of pollen germination in nine citrus cultivars such as ('Sour' orange, 'Duncan' grapefruit, 'Sweet' lemon, 'Salustiana' orange, 'Local' mandarin, 'Hamlin' orange, 'Siavaraz' orange, 'Marss early' orange and 'Shel-Mohaleh' [natural hybrid]) were investigated and evaluated.

After collecting the pollen grains, they were cultured on the Brwbaker medium (Agar 1%, Sacarus 15%, H_3Bo_3 0.01%, $Ca(No_3)_2$ 0.03%, $MgSo_4$ 4.02% and KNo_3 0.01%) with three replications and were put in the temperature 24-26¢ and then after 24 hours ,using photobinocolar, the number of germinated pollen grains in 300 from each cultivar with three replications was counted and finally the percentage of pollen germination was calculated.

Results of this study showed that the percentage of pollen germination in above-mentioned cultivars is from 11 to 25. These results also showed that the highest and lowest percentages of pollen germination belong to the pollen of `Local' mandarin and `Sweet' lemon respectively.