

**RESEARCH ARTICLE :**

## Influence of *in vitro* induced mutation on reproductive growth of “Camarosa” strawberry

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**SUMMARY :** The present study was undertaken to find out the effect of induced mutation on reproductive growth in strawberry cv. CAMAROSA. Explants were subjected to different EMS concentrations (0.1%, 0.2%, 0.3% and 0.4%) along with control for various treatment durations (1.5 hr, 2.5 hr and 3.5 hr). Runner tips, shoot tips, leaf disc (abaxial and adaxial) were used as explants. The concentration 0.4% was found lethal to the plants. The runner tip explants treated with EMS concentration 0.1% for duration 1.5 hr took minimum days to bear first flower (25.5) and maximum number of flowers per plant (25.5). While among various explants used, the runner tips explants was found best followed by shoot tips, leaf disc (abaxial) and leaf disc (adaxial). As the increased EMS concentrations along with treatment duration there was a gradual decrease in the number of runners and increase days taken to initiate the runners. In future, these experimental results will prove very useful for induction of variability in this fruit crops.

**KEY WORDS:**

Camarosa, *In vitro*,  
Induced mutation,  
Reproductive growth,  
Strawberry

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