The propagation of edible daylily (Hemerocallis fulva L.) by tissue culture[1]

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summary

Stem slices with sub-meristem tissues of Hemerocallis fulva L. were cultured on agar-solidified Murashing and Skoog's medium supplemented with 2.4-D(1.0 mg/l) and BA(3.0 mg/l), calli were induced and then regenerated plants directly within 5 weeks. Latent axiliary buds of the decapitate compact stem block were induced to sprout by the use of MS media supplemented with BA(0.1-0.5 mg/l), and the highest number of buds induced was obtained from 1.0 mg/l BA, which is 5.9 buds per explant. Flower scapes, filaments and pedicels can also be induced to produce callus and regenerate whole plant. With these techniques, mass propagation of edible daylily is possible.

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