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Effect of hormone on proliferation of *labisia pumila* / by Muhammad Izzat Farham Mad Akhir.

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Lihat Sebelah

EFFECT OF HORMONE ON PROLIFERATION OF *LABISIA PUMILA*

By
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the requirements for the award of degree of
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DEPARTMENT OF BIOLOGICAL SCIENCES
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**JABATAN SAINS BIOLOGI
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PENGAKUAN DAN PENGESAHAN LAPORAN PITA**

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk:
EFFECT OF HORMONE ON PROLIFERATION OF L. PUMILA

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DECLARATION

I hereby declare that this thesis entitled Effect of Hormone on Proliferation of *Labisia pumila* is the result of my own research except as cited in the reference.

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EFFECT OF HORMONE ON PROLIFERATION OF *LABISIA PUMILA*

ABSTRACT

L. pumila is a common traditional herb in Malaysia which is more specific with woman health. It claimed to enhance sexual health, as anti aging and faster the delivery during labor and immediately regain strength after birth. The aim of this experiment is to determine the effect of hormone on proliferation of *L. pumila*. Stem was used as explants in this experiment. Explants were cultured in B5 media with BAP, kinetin and zeatin at concentration of 0, 0.5, 1, 2 and 3 mg/L. All cultured media were left to growth respectively for two month and the data is analyzed. Results show that kinetin and BAP does not show any significant difference on shoot tips and leaves productions. Three mg/L zeatin produce the highest shoot tips and explants that produce highest of leaves was in 0.5 mg/L zeatin

KESAN HORMON TERHADAP PEMBIAKAN *LABISIA PUMILA*

ABSTRAK

L. pumila merupakan tumbuhan herba yang terdapat dia Malaysia yang lazimnya adalah spesifik untuk kegunaan kaum wanita. Tumbuhan ini dikatakan dapat meningkatkan tenaga batin, melambatkan proses penuaan dan mempercepatkan proses melahirkan anak serta mengembalikan tenaga selepas bersalin. Tujuan kajian ini dijalankan adalah untuk mengkaji kesan hormon terhadap pembiaikan *L. pumila*. Keratan batang daripada tumbuhan ini digunakan sebagai eksplan. Eksplan dikultur dalam media B5 bersama-sama hormon BAP, kinetin dan zeatin pada kepekatan 0, 0.5, 1, 2, dan 3 mg/L. Kesemua kultur dibiarkan selama dua bulan untuk membiasakan dan kemudian data di analisis. Keputusan menunjukkan kinetin dan BAP tidak memberikan sebarang kelebihan dalam penghasilan pucuk dan daun. Tiga mg/L zeatin menghasilkan kadar pertumbuhan yang paling tinggi manakala eksplant yang menghasilkan bilangan daun yg paling tinggi adalah pada medium yg dikultur pada medium 0.5 mg/L zeatin.