

TISSUE CULTURE OF AQUATIC PLANT  
*Cryptocoryne ciliata*

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**TISSUE CULTURE OF AQUATIC PLANT**

*Cryptocoryne ciliata*

BY:

**WONG CHOON WAI**

This project report is submitted in partial fulfillment of the requirement for the  
Degree of Bachelor of Science Biology  
(Biological Sciences)

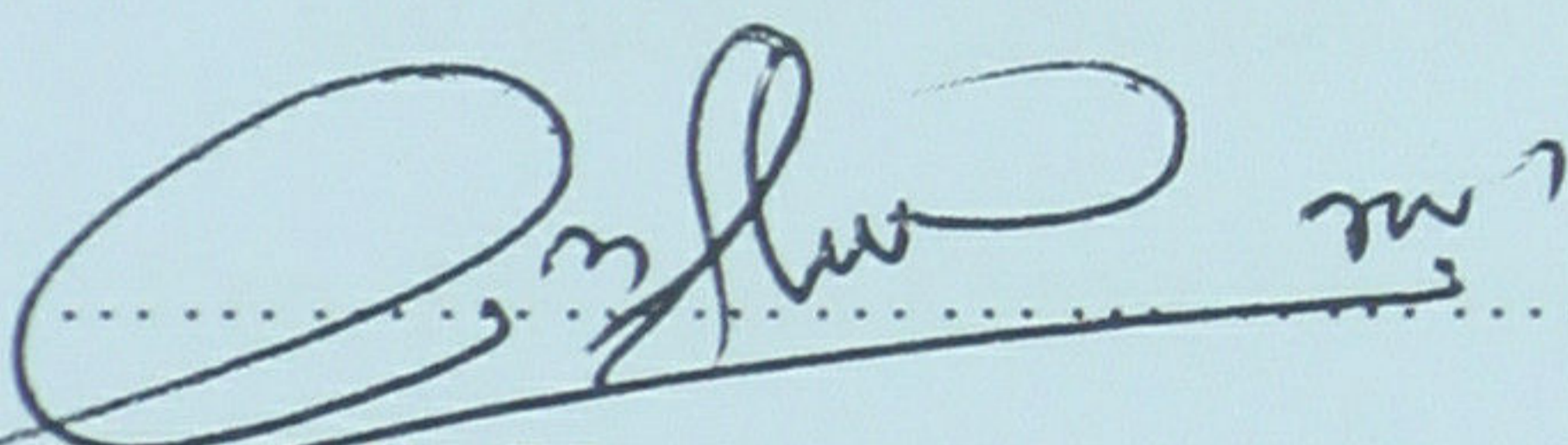
**Department of Biological Sciences  
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**PENGAKUAN DAN PENGESAHAN LAPORAN PENYELIDIKAN ILMIAH  
TAHUN AKHIR**

Adalah ini diakui dan disahkan bahawa laporan penyelidikan ilmiah tahun akhir bertajuk "Tissue Culture of Aquatic Plant, *Cryptocoryne ciliata*" oleh **WONG CHOON WAI**, No. Matrik **UK4431** telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Biologi sebagai memenuhi sebahagian daripada keperluan memperoleh Ijazah **Sarjana Muda Sains (Sains Biologi)**, Fakulti Sains dan Teknologi, Kolej Universiti Sains dan Teknologi Malaysia.

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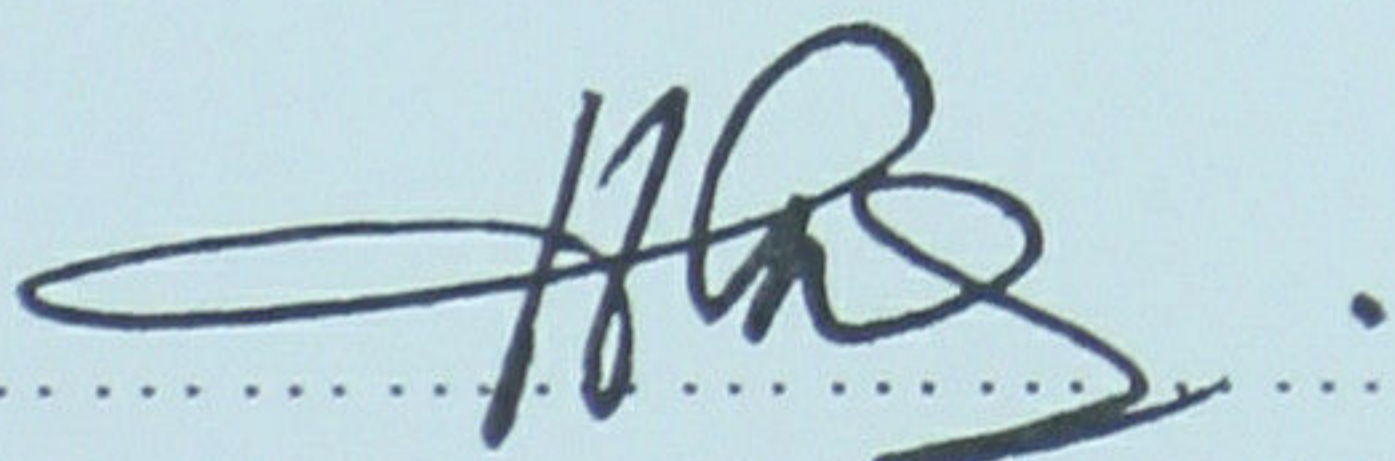
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PERPUSTAKAAN SULTANAH NUR ZAHIRAH

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## ABSTRACT

An aquatic plant, *Cryptocoryne ciliata* had been cultured *in-vitro* successfully. Several sterilization treatments had been tested. The most suitable sterilization technique for the shoot tips and seedlings were by using 100% Clorox (v/v) and immersed for 20 minutes. The explants were cultured on Murashige and Skoog (MS) medium containing either BAP or Kinetin at various concentration for four weeks. Five replicates were used. The best growth of shoot tips and seedlings were obtained on MS medium containing 5.0 mg/l BAP.

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## ABSTRAK

Kultur in-vitro keladi laut, *Cryptocoryne ciliata* telah berjaya dihasilkan. Pelbagai rawatan pensterilan telah diujikan. Teknik pensterilan yang paling sesuai bagi batang pucuk and biji benih *Cryptocoryne ciliata* adalah menggunakan 100% Klorox (v/v) dan direndam selama 20 minit. Eksplan telah dikultur atas media Murashige dan Skoog (MS) yang mengandungi BAP atau Kinetin dalam pelbagai kepekatan. Setiap kepekatan BAP atau Kinetin telah dikulturkan dengan 5 replikasi. Didapati eksplan yang dikultur dalam MS media yang mengandungi 5.0 mg/l BAP adalah paling berkesan terhadap pertumbuhan batang pucuk dan biji benih *Cryptocoryne ciliata*.

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