

UNIVERSITI TEKNOLOGI MARA

**DIVERSITY OF ENDOPHYTIC FUNGI IN
RUBBER ROOTS AND THEIR
ANTAGONISTIC ACTIVITY AGAINST
Rigidoporus lignosus (Klotzsch) Imezaki**

MOHD AKHBAR MUQRIZ BIN ABDUL WAHED

Final year project report submitted in partial fulfillment of the
requirements for the degree of
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Management**

Faculty of Plantation And Agrotechnology

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APPROVAL SHEET

This Final Year Project Report entitled “**Diversity Of Endophytic Fungi In Rubber Roots And Their Antagonistic Activity Against *Rigidoporus lignosus* (Klotzsch) Imezaki**” was submitted by **Mohd Akhbar Muqriz bin Abdul Wahed**, in partial fulfilment of the requirements for the Degree of Bachelor of Science (Hons) Plantation Technology and Management, in the Faculty of Plantation and Agrotechnology, and was approved by

DR ZAITON BINTI SAPAK

Supervisor

Faculty of Plantation and Agrotechnology
Universiti Teknologi MARA,
Jasin, Melaka

**MISS WAN NATASYA BINTI WAN
AHMED**

Project Coordinator

BSc. (Hons) Plantation
Technology and Management
Faculty of Plantation and
Agrotechnology
Universiti Teknologi MARA
Jasin, Melaka

MISS NORDIANA BINTI IBRAHIM

Head of Study Center

BSc. (Hons). Plantation
Technology and Management
Faculty of Plantation and
Agrotechnology
Universiti Teknologi MARA
Jasin, Melaka

DECLARATION

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Candidate's signature :  Date: 28/1/15

Name: MOHD. ACHBAR NUGEM B. ABDEL WANEH

I hereby declare that I have checked this project and in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor of Science (Hons.) Plantation Technology and Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

Signature: 

Name of Supervisor: **DR. ZAITON SAPAK**
Pensyarah

Position: **Fakulti Perladangan dan Agroteknologi**
Universiti Teknologi MARA
40450 Shah Alam

Date: 28/1/15

ABSTRACT

Rubber is one of the most important commodities in our country. The incidence of pest and disease can negatively affect the yield of this crop. One of the worst diseases is white root disease caused by *Rigidoporus lignosus*. This research was conducted to identify the presence and diversity of endophytic fungus in the roots of this crop and to examine the potential of biological control agents through these endophytes. The result of this study shown there is difference between commercial rubber and wild rubber in the aspect of diversity where commercial rubber has high percentage of endohytic fungus which is eighty-one percent from the total of eighty-nine isolates. Next, there are certain endophytes that managed to control the pathogen growth up to fifty percent namely F3 and F4.

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