



**UNIVERSITI PUTRA MALAYSIA**

**FUNCTIONAL CHARACTERIZATION OF GIBBERELIC ACID RELATED  
GENES FROM OIL PALM IN *Arabidopsis thaliana* FOR POTENTIAL  
ROLE IN HEIGHT REGULATION**

**MUHAMAD AFIQ BIN ABDUL HALIM**

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ROLE HEIGHT REGULATION**

By

**MUHAMAD AFIQ BIN ABDUL HALIM**

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