



UNIVERSITAS  
GADJAH MADA

**SYMBIOTIC ANALYSIS BETWEEN *Bradyrhizobium elkanii* USDA61 AND *Lupinus pilosus***  
Cokorda Keigoputra Pemayun, Prof. Ir. Irfan Dwidya Prijambada, M.Eng., Ph.D. ; Shin Okazaki, Ph.D.  
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**UNDERGRADUATE THESIS**  
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**AND *Lupinus pilosus***



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**STUDY PROGRAM OF AGRICULTURAL MICROBIOLOGY**  
**DEPARTMENT OF AGRICULTURAL MICROBIOLOGY**  
**FACULTY OF AGRICULTURE**  
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*9 April 2025*

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