

**EUGLENOIDS IN NORTHERN THAILAND AND  
APPLICATION FOR WATER QUALITY  
ASSESSMENT**

**KRITSANA DUANGJAN**

**DOCTOR OF PHILOSOPHY  
IN APPLIED MICROBIOLOGY**

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**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY  
MARCH 2014**

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APPLICATION FOR WATER QUALITY  
ASSESSMENT**



**KRITSANA DUANGJAN**

**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL  
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY  
IN APPLIED MICROBIOLOGY**

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THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF  
THE REQUIREMENTS FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY  
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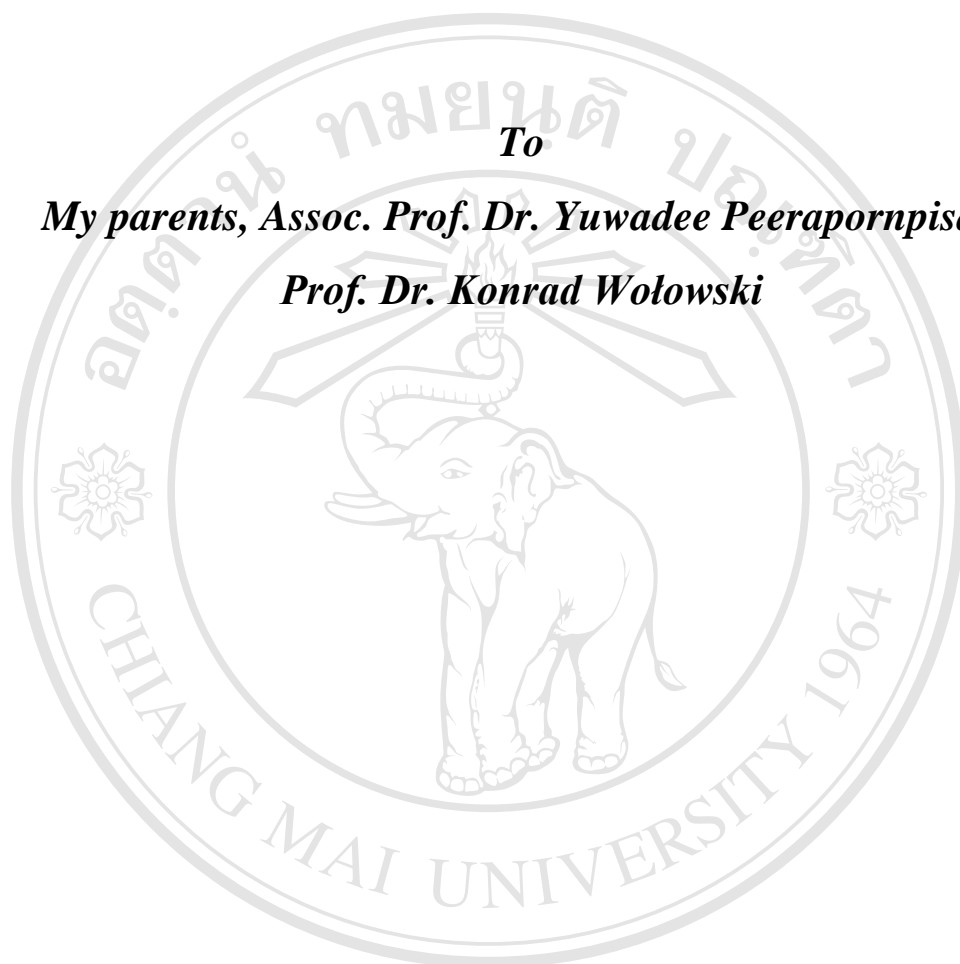
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17 March 2014

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To

*My parents, Assoc. Prof. Dr. Yuwadee Peerapornpisal,*

*Prof. Dr. Konrad Wołowski*

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