

**GENOTYPE AND NUCLEOTIDE SEQUENCE POLYMORPHISM  
OF THE 56-KILODALTON MAJOR PROTEIN GENE OF  
ORIENTIA TSUTSUGAMUSHI IN THAILAND**

**SALAKCHIT CHUTIPONGVIVATE**

**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN  
PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY  
IN BIOTECHNOLOGY**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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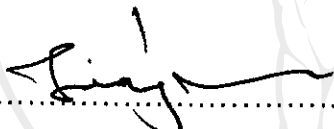
**SEPTEMBER 2003**

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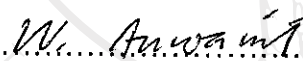
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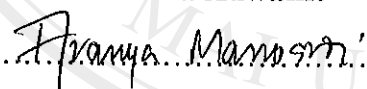
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