

**EFFECTS OF SARAPHI (*Mammea siamensis*) FLOWER  
EXTRACTS ON LEUKEMIC CELL PROLIFERATION  
AND EXPRESSION OF WILMS' TUMOR 1 PROTEIN,  
BREAKPOINT CLUSTER REGION/ABELSON,  
AND FMS-LIKE TYROSINE KINASE 3**



**RUNGKARN SANGKARUK**

**MASTER OF SCIENCE**

**IN MEDICAL TECHNOLOGY**

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**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY  
DECEMBER 2015**

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**RUNGKARN SANGKARUK**

**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL  
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF  
MASTER OF SCIENCE  
IN MEDICAL TECHNOLOGY**

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THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF  
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*I dedicate this thesis to my family for their support.*



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