

**ANALYSIS OF MORPHOLOGICAL AND PROTEIN
CHANGES IN THE MIDGUT AND SALIVARY
GLANDS OF FEMALE *Anopheles dissidens*
DURING ADULT DEVELOPMENT AND
BLOOD FEEDING AND BACTERIAL
DIVERSITY IN THE MIDGUT**

BENJARAT PHATTANAWIBOON

DOCTOR OF PHILOSOPHY

IN PARASITOLOGY

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**GRADUATE SCHOOL
CHIANG MAI UNIVERSITY
NOVEMBER 2016**

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BENJARAT PHATTANAWIBOON

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

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THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF
THE REQUIREMENTS FOR THE DEGREE OF
DOCTOR OF PHILLOSOPHY
IN PARASITOLOGY

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24 November 2016

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