

**MOLECULAR STUDY ON SODIUM CHANNEL GENE POINT MUTATION  
AND THE ASSOCIATION WITH INSECTICIDE  
RESISTANCE IN *Aedes aegypti***

**JINTANA YANOLA**

**DOCTOR OF PHILOSOPHY  
IN PARASITOLOGY**

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**THE GRADUATE SCHOOL  
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**A THESIS SUBMITTED TO THE GRADUATE SCHOOL 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  
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