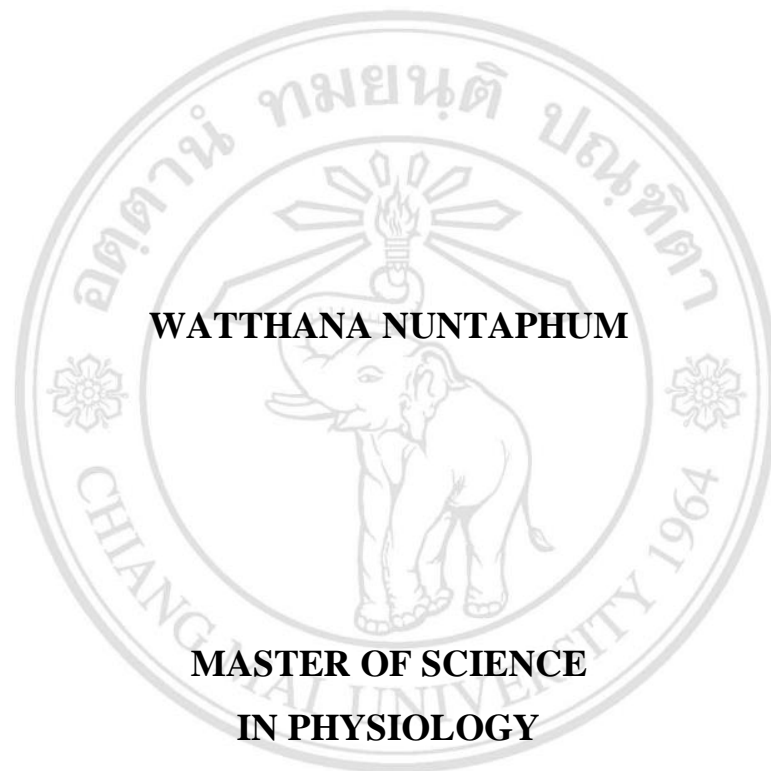


**THE EFFECTS OF VAGUS NERVE STIMULATION ON  
THE HEART SUBJECTED TO ACUTE CARDIAC  
ISCHEMIA/REPERFUSION INJURY IN SWINE**



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**GRADUATE SCHOOL  
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NOVEMBER 2017**

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**WATTHANA NUNTAPHUM**

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

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THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF  
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24 November 2017

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*To*

*Dear parents*



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## ACKNOWLEDGEMENT

This master thesis has been carried out at the Cardiac Electrophysiology Research and Training Center, Faculty of Medicine, Chiang Mai University, since 2016.

Firstly, I would like to express my sincere gratitude to my advisor Asst. Prof. Dr. Krekwit Shinlapawittayatorn, the instructor at the department of Physiology, Faculty of Medicine, Chiang Mai University for his continued support during my M.Sc. study, and related research. I have an appreciation for his motivation, patience, and immense knowledge. He is not only my advisor but also has helped me at all times during my M.Sc. study. I would like to thank my thesis co-advisor, Prof. Dr. Nipon Chattipakorn and Prof. Dr. Siriporn Chattipakorn. I thank them for their insightful comments, encouragement, care and powerful inspiration. Moreover, my sincere thanks to the instructors at the department of Physiology, Faculty of Medicine, Chiang Mai University, who have provided me with basic and advanced Physiology knowledge.

I would like to thank my OR team for their helpfulness, hard work and providing me their great advice and suggestions. I still remember working on our lab and how much that made me happy. Thanks for all the time together that we have had in the last year. Moreover, I would like to thank all my friends at the Cardiac Electrophysiology Research and Training center and at the Department of Physiology for their friendship, help, and joyful moments during my graduate study. Unforgettably, I also would like to thank my close friends for their kind hearts and helpfulness. Last but not least, I would like to thank my family, especially my parents, for their love, patience, understanding of and support for me throughout my life. Although this is a small step, it is one of the greatest parts of my life.

Wattana Nuntaphum