

**EFFECTS OF PINOCEMBRIN ON INITIATION AND PROMOTION STAGES  
OF HEPATOCARCINOGENESIS IN RATS**

**CHARATDA PUNVITTAYAGUL**

**MASTER OF SCIENCE  
IN BIOCHEMISTRY**

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**THE GRADUATE SCHOOL  
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**JUNE 2010**

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**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN  
PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF  
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THIS THESIS HAS BEEN APPROVED  
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7 JUNE 2010

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## ACKNOWLEDGEMENT

I would like to express my sincere gratitude and appreciation to the members of the advisory and examining committee, Asst. Prof. Dr. Rawiwan Wongpoomchai, Assoc. Prof. Dr. Ampai Panthong, Asst. Prof. Dr. Wilart Pompimon, Dr. Rawiwan Maniratanachote and Asst. Prof. Dr. Pichapat Piamrojanaphat for their continuous guidance and kindness, valuable advices, encouragement and behave to be everything throughout the course of my study.

Special acknowledgement is directed to The Center for Innovation in Chemistry (PERCH-CIC), The National Research Council of Thailand (NRCT) and The Endowment Fund for Medical Research (CMB) for funding my study and research.

I want to thank the Department of Biochemistry, Laboratory Animal House and Instrumental Center for Medicine Research, Faculty of Medicine, Chiang Mai University for giving me permission to commence this thesis in the first instance, to do the necessary research work and to use instrument. I feel very grateful to Assoc. Prof. Dr. Nirush Lertprasertsuke, Department of Pathology, Faculty of Medicine, Chiang Mai University, Thailand for providing livers section.

My former colleagues from the Department of Biochemistry supported me in my research work. I want to thank them for all their help, support, interest and valuable hints. Especially, I would like to give my special thanks to my colleagues Miss Sirinya Taya, Mr. Suphachai Charoensin and Miss Wanida Inbut who enabled and helped me to complete this work.

Charatda Punvittayagul