

**ACUTE EFFECTS OF METHAMPHETAMINE ON ELECTROENCEPHALOGRAM
(EEG), LOCOMOTOR ACTIVITY, AND STEREOTYPED BEHAVIOR IN RATS**

JANCHAI KRITSANASAP

**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
MASTER OF SCIENCE
IN PHYSIOLOGY**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright© by Chiang Mai University

All rights reserved

GRADUATE SCHOOL

CHIANG MAI UNIVERSITY

APRIL 2004

**ACUTE EFFECTS OF METHAMPHETAMINE ON ELECTROENCEPHALOGRAM
(EEG), LOCOMOTOR ACTIVITY, AND STEREOTYPED BEHAVIOR IN RATS**

JANCHAI KRITSANASAP

THE THESIS HAS BEEN APPROVED
TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF MASTER OF SCIENCE
IN PHYSIOLOGY

EXAMINING COMMITTEE

C. PraputpittayaCHAIRPERSON
Asst.Prof.Dr.Chucheep Praputpittaya
Pongruk SribanditmongkolMEMBER
Assoc.Prof.Dr.Pongruk Sribanditmongkol
Tawat TawattikulMEMBER
Asst.Prof.Dr.Tawat Tawattikul
A. PongchaidechaMEMBER
Asst.Prof.Dr.Anchalee Pongchaidecha

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright © by Chiang Mai University
All rights reserved

30 April 2004

ACKNOWLEDGEMENT

I am extremely indebted to the valuable advice, providing the useful guidance throughout the period of my study and the most kind encouragement of my advisor, Assistant Professor Dr. Chucheep Praputpittaya. I am also grateful to my co-advisor, Associate Professor Dr. Pongruk Sribanditmongkol for his helpful suggestions, and comments on this thesis.

I am also particularly thankful to Assistant Professor Dr. Damrongsak Bulyalert, Assistant Professor Dr. Apisate Pleumsamran, Assistant Professor Dr. Sitthichai Wanachantararak, Associate Professor Dr. Araya Jatisatian, Lecturer Dr. Srisuruk Theranupattana, Mr. Hiroshi Kuwahara, Assistant Professor Dr. Alfredo Villarroel for their kindness and valuable advice.

My special thanks to Mr. Boonsri Wongmoonlar and Mr. Tawat Sununta, for helping and co-operation in this experiment.

I wish to express my profound gratitude to all members of the supervisory graduate committee for suggestions of this thesis.

I would like to extend my thanks to all members in the department of Physiology, Faculty of Medicine, Chiang Mai University for their kindness.

Finally, I am extremely grateful to my family for their love, support and encouragement throughout my life.