THE CONTRIBUTION OF EXPRESSION AND SECRETION OF VASCULAR ENDOTHELIAL GROWTH FACTOR ON TUMOR PROGRESSION

ONUSA WATTANANUPONG

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

GRADUATE SCHOOL
CHIANG MAI UNIVERSITY
SEPTEMBER 2004
ISBN 974-9807-83-9

THE CONTRIBUTION OF EXPRESSION AND SECRETION OF VASCULAR ENDOTHELIAL GROWTH FACTOR ON TUMOR PROGRESSION

ONUSA WATTANANUPONG

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

EXAMINING COMMITTEE	
Sy 1865	CHAIRPERSON
Dr.Ratchada Cressey	
Assoc.Prof.Dr.Nirush Lertprasertsuke	MEMBER
A. Harnscharen	MEMBER
Assis.Prof.Dr.Audomsark Haesungcharern	
Dalina Tanyong Dr.Dalina Tanyong	MEMBER
Dr.Dalina Tanyong	

15 September 2004 © Copyright by Chiang Mai University

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, Dr. Ratchada Cressey.

I am also grateful to my co-advisor, Associate Professor Dr. Nirush Lertprasertsuk for her helpful suggestions, and comment on this thesis. I would like to offer my special thanks for her kindness.

I wish to thank all the examining committee members for their valuable suggestion and correction of this thesis.

I also wish to thank the Department of Clinical Chemistry, Faculty of Associated Medical Sciences for their support in providing instruments and a place to study and the Faculty of Graduate School Chiang Mai University for allowing conduct this project.

This work is sponsored by the Thailand Research Fund (grant no.MRG4580013) and I wish to thank the National Center for Genetic Engineering and Biotechnology (BIOTECH) of Thailand in providing the scholarship for my post graduate study.

Finally, I would like to be grateful to my parents for all of their supports throughout my life and especially for this thesis.

