

**BIOACTIVE GLUCOSINOLATES AND ANTIOXIDANT PROPERTIES  
IN BROCCOLI SEEDS CULTIVATED IN THAILAND**

**SARUNYA CHUANPHONGPANICH**

**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN  
PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY  
IN PHARMACY**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY**

**SEPTEMBER 2005**

**ISBN 974-9887-22-0**

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30 September 2005

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## ACKNOWLEDGEMENTS

The author wishes to express her sincerest gratitude to:

Her major advisor, Associate Professor Dr. Busaban Sirithuanyalug, and co-major advisors, Professor Dr. Maitree Suttajit, Associate Professor Dr. Duang Buddhasukh and Associate Professor Dr. Sukon Phanichphant, for their invaluable helpful guidances, full supports, unlimited access and constant encouragements during her research study.

Dr. Pichai Pirakitikulr, for his excellent guidance and support during all phases of her educational experiences. His encouragement was special and sincere, from the beginning of the research till the goals were achieved. His hospitality for arranging the analytical HPLC instrument from U.S.A. to the laboratory was indeed a big plus.

Associate Professor Duangporn Winijkul and Assistant Professor Dr. Kanawan Pochanakom for serving as her final examination committees.

Drs. Sukon Phanichphant and Duang Buddhasukh, my research professors, for training me continuously since my Master Degree research. Their kindness, vast technical know how, expertises are truly cordial to me even though I came from another school, rather than Department of Chemistry. I am lucky and proud to be considered as one of their numerous mentees and out from their gold plated mold. Forever thanks to my Mentors.

Dr. Charan Ditchaiwong, for his helpful work and endless support in broccoli seeds production.

National Research Council of Thailand, the Research Fund of the Graduate School and the Faculty of Pharmacy, Chiang Mai University for financial support.

All my teachers, instructors and professors for giving me the chance to absorb their knowledge, especially during many years in the pharmacy school, as well as human psychology.

Graduate students, friends and staff members of the Faculty of Pharmacy, the Nanotechnology Laboratory, Department of Chemistry, Faculty of Science, Chiang Mai University, for their friendship during my research study.

My parent, Mae Dang, sister Ann (Sarali), Kwan, Ann, Tai, Aom, Kwan noi, Kan, Jinny, Sarin, Numpech, Ping Ping, ..... and many, many names which I have kept in my special memory (the secret file), and all friends, for their constant, unconditional and undenied encouragements, and supports for keeping me going beyond myself.

Last but not least, I thank all the believing things in the universe which have influenced upon me in the past, present and making me a better and better person in the future.

Sarunya Chuanphongpanich