

ACKNOWLEDGEMENTS

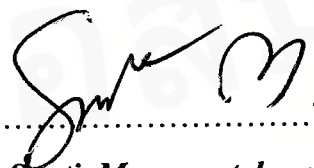
This Ph.D. dissertation is an accomplishment due to the efforts of a number of people whom I am indebted as the following:

I would like to express my deepest gratitude and appreciation to my advisory committee, Associate Professor Dr. Pramuan Tapchaisri, Professor Dr. Wanpen Chaicumpa, Assistant Professor Dr. Patcharin Saengjaruk, Assistant Professor Dr. Urai Chaisri and Assistant Professor Dr. Pongsri Tongtawe, for teaching, judicious guidance, patience to me and scientific expertise throughout this project. I am also thankful to my coworkers and friends in Molecular Immunology Laboratory and companions lab. Years from now when I look back on my Ph. D. years, the memories I have, will be of you. Special thanks to experimental animals that devote their life for the experiment.

My gratitude also goes to Professor Dr. Sou-ichi Makino, Obihiro University of Agriculture and Veterinary Medicine, for his kind acceptance to be my dissertation examination chairperson.

Thank you to the Royal Golden Jubilee Ph. D. program (RGJ), the Thailand Research Fund (TRF) for financial support, Faculty of Allied Health Sciences for providing all the facility equipments throughout my study.

Thank you to my parents for believing that I have "the ability to make a world of beautiful tomorrows".



.....
Santi Maneewatchararangsri