

ACKNOWLEDGEMENTS

I would like to express my deepest appreciation and heartfelt thanks to Assoc. Prof. Dr. Pongthep Akratanakul of Department of Entomology, Faculty of Agriculture, KasetsartUniversity, my advisor, for his generous supports, encouragement valuable comments and expert guidance on this thesis. I am deeply grateful to Assoc. Prof. Dr. Theeraphap Chareonviriyaphap, and Asst. Prof. Dr. Lertluk Ngernsiri, my co-advisors, for providing critical comments on thesis improvement. My sincere and special thanks go to Group Captain Suchart Aungsuchote for his help suggestion areas in each site for my sample collections. Appreciation is also extended to Colonel Liab Chunsukkho, Agricultural and Cooperation Deputy Director, Kanchanaburi, to facilitate dwelling place and research area and my colleagues who supported to thesis achievement. This research would not have been possible without the mosquito collection team from Department of Entomology, Faculty of Agriculture.

This thesis is partly supported by the Center for Agricultural Biotechnology (CAB) through the fund from Subproject Graduate Study and Research in Agricultural Biotechnology under Higher Education Development Project, the Commission on Higher Education, Ministry of Education and the Thailand Research Fund (TRF) Organization, Bangkok, Thailand.

Finally, I am especially appreciated my parents, my sisters and brothers for their continuing encouragements.

Pisit Poolprasert

May, 2007