

Acknowledgements

This research was financially supported by New Researchers Grant (to Dr. Santi Maneewatchararangsri, No. MRG5380138, 2010-2012) from Thailand Research Fund (TRF), the Office of Higher Education Commission and Mahidol University. I would like to express my deepest gratitude and appreciation to my research consultant, Professor Dr. Wanpen Chaicumpa, Laboratory for Research and Technology Development, Department of Parasitology, Faculty of Medicine Siriraj hospital, Mahidol University for her supports and valuable RESEARCH supervision. Department of Tropical Hygiene, and Department of Molecular Tropical Medicine and Genetics, Faculty of Tropical Medicine, Mahidol University, Laboratory for Research and Technology Development, Department of Parasitology, Faculty of Medicine Siriraj Hospital, Mahidol University are acknowledged for research supports.