## **ACKNOWLEDGEMENTS**

I would like to thank my advisor, Associate Professor Amara Thongpan, for her suggestion, patience, support, enthusiasm and philosophical discussions. I would like to thank Associate Professor Prapee Sretarugsa for her kindness, encouragement and giving the opportunity to do my work at the Anatomy Department, Faculty of Science, Mahidol University. I also would like to thank Associate Professor Kannika Chatchavalvanich for her kindness, advice and helpfulness. My deep and special thank is extended to Dr. Wattana Weerachatyanukul for his technical consultation throughout my work and the thorough supervision of my laboratory work. His kindness in thesis preparation, which has enabled me to attain this successfully, is also highly appreciated.

This research was financially supported by Kasetsart University Research and Development Institute (KURDI) under the project title "Oviductal secretion in *Rana tigerina*: its biochemical and histochemical characterization using lectin staining and the effect of progesterone on its production". I am grateful to the institute's support and its encouragement for young scientists and graduate students to do research. I would like to acknowledge the financial, material and facility supports from the Anatomy Department, Faculty of Science, Mahidol University, which make thesis work possible.

I would like to thank all the members of the Reproductive Laboratory (AN 102, 104), Anatomy Department, Faculty of Science, Mahidol University and all the members of the Cell and Molecular Biology Laboratory, General Science Department, Faculty of Science, Kasetsart University, for their encouragement, generous help, entertainment, support and good friendships. Finally, I would like to express my deep heartfelt thanks and gratitude to my beloved father and mother for their understanding, kindness, warm encouragement, support and giving me the opportunity all my life.