## **ACKNOWLEDGEMENT**

First and foremost, I would like to praise and thank God, the almighty, who has granted countless blessing, knowledge, and opportunity to the writer, so that I have been finally able to accomplish the thesis.

Apart from the efforts of me, the success of thesis depends largely on the encouragement and guidelines of many others. I take this opportunity to express my gratitude to the people who have been instrumental in the successful completion of this thesis.

The writer hardly knows where to start expressing the gratitude but for sure the gratitude goes to all those who have assisted her in the process of completing this thesis. It would be impossible to list all names but several people deserve her sincere and special thanks.

I would like to show my greatest appreciation to Dr. Hj. Ely Djulia, M.Pd., as the thesis advisor. I can't say thank you enough for her tremendous support and help. I feel motive and encouraged every time I attend her meeting. Without her encouragement and guidance this thesis would not have materialized.

She gratefully acknowledges the deepest gratitude to Drs. Tri Harsono, M.Si., the head of Biology Department, Prof. Dr. Herbert Sipahutar M. Si., M. Sc., the coordinator of Bilingual Program, Mr. Samsuddin for his administrative assistance and Prof. Drs. Motlan, M.Sc, Ph. D., as dean of the Faculty of Mathematics and Natural Science, State University of Medan.

Her enormous appreciation is addressed to Prof. Herbert Sipahutar M. Si., M. Sc., Dra. Meida Nugrahalia, M. Sc., and Dr. Syahmi Edy, M.Sc., as her examiners, for the valuable inputs to be included in this thesis and generously spent precious time in giving the guidance, encouragement, suggestion, and comments for this thesis.

She is indebted to Dr. Hasruddin, M. Pd and Drs. Tri Harsono as evaluator for her research instrument, for their constructive comments and suggestion for the improvement of this study. She also in enormous intellectual debt to all

lecturers of biology education bilingual program, who has become her inspiration during the academic years and also during the completion of this thesis.

Special thanks are extended to Drs. Adrul, headmaster of SMP Negeri 1 Tebing Tinggi, Biology teacher of class VIII and Salamah, S,Pd for the cooperation during research. I am grateful for his constant support and help.

Finally, she will forever be indebted to her beloved parents J. Limbong and T. br Aritonang, for having given her unfailing support and encouragement during the academic year and the completion of this thesis, her lovely brother and sister, Julita Dewi Limbong, Marito Desi Limbong and Gondo Michael Limbong for always trying to keep her on track whenever and whatever problems she have to overcome.

Last but not least, the guidance and support received from all her best friend syevo group (Tari, Keasy, Meti, Chistina), Aisah, Uci, Lastria, Siti, Debora, Nike, Doyar, Tusam family and all friends from Biology Bilingual Program Year 2008 for their friendship, motivation, and cooperation.

It would be difficult to find adequate words to convey how much she owes the people. Lots of love and thank to all of you. May God bless us.

Medan, October 2012 Writer.



Winny Sunfriska Limbong