ACKNOWLEDGEMENT

First and foremost, praise and thank to Almighty Jesus Christ, who has granted countless blessing, knowledge and opportunity to the writer, so that she has been finally able to accomplish her thesis.

The writer hardly knows where to start expressing her 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.

Grateful acknowledgment is addressed to her thesis superviser, Dra. Hj. Martina Restuati, M.Si, who has generously given the time, guidance and suggestion until this thesis comes to its present form.

Her enormous appreciation is also addressed to Drs. Tri Harsono, M.Si, the head of Biology Department, Prof. Dr. rer. nat. Binari Manurung, M.Si., the coordinator of Bilingual Program, and Mr. Samsudin, Mr. Hasugian and Mam Riche for their administrative assistance. She wishes to acknowledge Prof. Dr. rer. nat. Binari Manurung, M.Si., Syarifuddin, M.Sc, Ph.D., and Dra. Martina A. Napitupulu, M.Sc., as her examiners, for the valuable suggestions on this thesis. She also thanks to the validators of the research instrument and all lecturers of Biology Education Bilingual Program who has become her inspiration during the academic years and this thesis completion.

Special thanks are extended to Aldon Samosir, S.Pd., the headmistress of SMA Negeri 2 Balige, Biology teacher of Grade Ten, Happy BF Hutabarat, S.Pd., M.Si and students of XI IA 5, X6 and X7 academic year 2013/2014 for the cooperation and attention during the research.

She will forever be indebted to her beloved parents B. Batubara, S.H and G. Henrika Sinaga, S.Pd, for having given their great morals and materials support, motivation and encouragement during the academic year and the completion of this thesis, her lovely brothers Rivai Geraldin Batubara, A.Md and Prana Hakim Putra Batubara and sister Arlita Putri Batubara for their big support, pray and love everyday and everytime. She deeply gives special
thanks to them for raising up her spirit and hugging her while she was had the heart’s falls on this thesis starting point. This very thanks is for the five most special names above for all precious advices, family warms and touchful unlimited love given to her.

Last but not least, her heartfelt thanks also go to her special academic and spiritual friends Helma K Sihombing, Herlina Manalu, Dewi Mentari, Lea Christina Ginting, Martalena Pakpahan and guider sister Henny Manurung, S.Si. She thanks for all sweet moments in Manna Community Small Group during the almost four years. Her deepest thanks also go to all great friends in Biology Bilingual Program Year 2010 for their warm friendship.

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

June, 2014

The Writer

Tiara Linda Batubara
SID. 4103141080