ACKNOWLEDGEMENTS

To begin with, I thank God for all his blessings in my journey towards the completion of my thesis.

I would like to thank my supervisor, Prof Ramesh Sharma for allowing me to work under him. His guidance, approachability and encouragement helped me a lot in understanding the problems and approaching them in a befitting manner. It was his selfless efforts, inspiration, affection and encouragement that made all possible. His patience and insight has made me realize and understand life in a broader perspective.

My thanks also goes to the Heads of the Department, Prof. A. N. Rai, Prof. Lalthantluanga, Prof. Anis Alam, for allowing me to use all the facilities of the Department during the entire period.

I also would like to convey a deep sense of gratitude to all the other faculty members of the Department like Prof. R. N. Sharan, Dr. D. Syiem, Dr. A. K Singh, Dr. P. K Ambasht, Dr. M. B. Syiem, Dr. S. Bhan and Mr. T. Tripathi for all the valuable suggestions and help.

A sincere note of appreciation is expressed for Prof. B. B. P. Gupta, Dept of Zoology, NEHU, for allowing me to use the liquid scintillation counter and for offering suggestions at times.

The non-teaching staff of the Department, Mr. M. B. Singh, Mr. B. Laloo, Mrs. Y. Kharkongor, Mrs. Pushpa, Mr. Kushal, Mr. Ponderly, Mr. Kharir and all the others also deserve a special note of gratitude for always being of help whenever required. I would also like to thank Dr. Marbaniang, Dr. Joshi and Dr. Synchar of Regional Poultry Farm, Kyndemkuli, for their help. A special note of appreciation is deserved by Pynkup Syiem and Deliver Kharumnuid who has helped with a lot computational work.

The lab that I have spent so much time in has been a really wonderful place especially because of the friendly environment. I would like to thank my seniors Dr. Debipreeta Dutta and Dr. Danswrang Goyary for their help and valuable suggestions. A special note of thanks goes to Piyali, Kittlangki, Preeticia and Banteiskhem for a helpful as well as joyous atmosphere being created at all times. My juniors Wanai and Teikur have also been there at times to add to the environment. Rennie, Yashmin, Merlyani, Jignasa, Amrita, Natasha, Banri, Khet, Norma and all the other research scholars of the Dept. also need to be thanked.

It would be incomplete if I do not thank Dr. C. Massar, Sir Gareth, Manbha, Hunhameshiaha, Bah Ban, Goutam, Arun, Sanjoy, Gyan, Panna, Don, Pramod, Pothang, Thianglallal, Thomas, Arches, Filbert, Eva, Bala, Euginia & Jose for being encouraging and helpful at all times.

My parents and family members have supported me at all times and it was their faith and belief in me that has guided and re-instilled my belief in myself.

Dated : 26th October, 2009

Daniel Nongbri