ACKNOWLEDGEMENTS

I would like to express my deepest thanks to my supervisor, Prof. Dr. Reiner Finkeldey, for his excellent guidance of my studies and assistance regarding many aspects of my life in Germany. My special thanks also go to Prof. Dr. Hans H. Hattemer for initially accepting me as a Ph.D. candidate. I am also very thankful to Prof. Dr. Dirk Hölscher for consenting to be the co-referee and to Prof. Dr. Franz Gruber for his interest in being a member of the examination committee.

I would like to express my gratitude to Prof. Dr. Soekotjo and Prof Dr. Moh. Naiem for kindly providing the experimental materials from natural populations in Kalimantan, and to Prof. Dr. Stefan Porembski for help in providing the leaf materials of *Monotes kerstingii* from Benin. Acknowledgements are also due to D.T. Adriyanti, M.Sc. for species identification of the samples.

I acknowledge Dr. Oliver Gailing for his guidance, valuable ideas and constructive discussion. I would like to express my appreciation to Dr. Barbara Vornam and Dr. Ludger Leinemann for suggestions regarding molecular analysis and Prof. Dr. Martin Ziehe for statistical advice.

I express my thanks to Thomas Seliger and Gerold Dinkel for laboratory technical assistance and Marita Schwahn for help in secretarial work.

Gratitude is also extended to all colleagues: Dr. Natalia Decarli, Dr. Jörg Kleinschmit, Sylvia Nascimento, Madhav Pandey, Hong Truong Luu, Cui-Ping Cao, Alexandru-Lucian Curtu, Martin Mottura, Valdir Marcos Stefenon, Abeyneh Derero, Aki Höltken, Yanti Rachmayanti, and many others who could not be mentioned here.

I thank Mike Legaspi and Abby Legaspi for the language correction of this manuscript and Rüdiger Kind for smoothing the German in the summary.

I sincerely appreciate the German Academic Exchange Service (DAAD), which provided generous financial support during my study in Göttingen, Germany.

My deepest and genuine gratitude is extended to my wife, Noor Khomsah Kartikawati and my son, Rizaldi Azhar Indrioko. Their patience, love and tolerance supported me as I completed my studies.