

## ACKNOWLEDGEMENT

First of all I thank **God Almighty** for showering abundant grace on me to complete my Ph. D work.

I am grateful to **Rev. Fr. Dr. Alphonse Manickam, S.J.**, former Principal **Rev. Fr. Dr. A. Joseph, S.J.**, Principal and **Rev. Dr. A. Arockiasamy S.J.**, Secretary, St. Xavier's College (Autonomous), Palayamkottai, for given me the opportunity to do my research work in this college.

I would like to express my sincere gratitude to my guide, **Dr. V. Irudayaraj**, for his continuous support of my Ph. D study and research, for his patience, motivation, enthusiasm, and immense knowledge. His guidance helped me in all the time of research and writing of this thesis.

I am very much thankful to **Dr. L. Louis Jesudass**, Head and **Dr. K. Natarajan**, former Head, Department of Plant Biology and Plant Biotechnology, St. Xavier's College (Autonomous), Palayamkottai for providing general laboratory facilities and for their encouragements throughout my research works.

I thankfully remember all kinds of encouragements and laboratory facilities provided by late **Rev. Dr. V. S. Manickam S. J**, former Director, Centre for Biodiversity and Biotechnology (CBB), St. Xavier's College (Autonomous), Palayamkottai. I acknowledge the same kinds of encouragements and facilities provided by the present Director of CBB, **Rev. Dr. J. Arulandam S. J**.

I thank **Rev. Dr. Ignacimuthu S. J.**, Director, **Dr. Gabriel Paulraj** and **Dr. Durai Pandiyan**, Scientists, Entomology Research Institute, Loyola College Chennai for their exuberant guidance and help to carry out phytochemical and bioautographic analysis. **Rev. Dr. M. Albert William S J.**, Secretary, Loyola College (Autonomous), Chennai morally supported and inspired me to successfully complete my Ph. D work as early as possible.

I am very much thankful to **Dr. Paulraj M. D.**, Department of Medicine, **Dr. N. Palaniappan M. D.**, **Dr. S. Poongodi @ Lakshmi M. D.**, **Dr. G. Sucila Thangam M. D.**, **Dr. G. Velvizhi M. D.**, P. G students and all the staff members, Department of Microbiology, Tirunelveli Medical College Hospital Tirunelveli, for their valuable guidance and helps when doing major part of antimicrobial assay. **Dr. Nirmala Devi M. D.**, **Dr. Judith Roy M. D.** and **Dr. Sivayayadevi M. D.**, Department of Dermatology, Tirunelveli Medical College Hospital, for their helps to collect clinical samples.

I am also thankful to **Mrs. Saroja Edwin** and **A. James Raja** Scudder Microbiology Laboratories, Nagercoil for their helps to carry out preliminary antimicrobial assay. I thank **Dr. M. A. Haniffa**, Director, and research scholars, Centre for Aquaculture Research and Extension, St. Xavier's College (Autonomous), Palayamkottai for providing facilities to carry out bioautography.

I thank the technical staff of **AsthaGiri Herbal Research Foundation**, Chennai and Department of Chemistry, St. Joseph's College (Autonomous), Tiruchirapalli, to carry out HPLC, HPTLC and FTIR studies. In this connection I also remember the helps done by **Mr. N. Janakiraman**.

I am also thankful to **Dr. L. Henry Joseph**, **Dr. D. Patric Raja**, **Dr. A. John De Britto**, **Mr. S. Beschi Antony Rayan**, **Dr. G. Sahaya Anthony Xavier**, **Dr. M. Johnson**, **Mr. John Peter Paul** and **Mr. Christopher Patrick**, Faculty members, Department of Plant Biology and Biotechnology, **Mr. Jeyapaul**, Department of Chemistry, St. Xavier's College (Autonomous), Palayamkottai; **Dr. G. Jeya Jothi**, Department of Plant Biology and Plant Biotechnology, Loyola College Chennai; **Dr. Chandrasekar**, Professor, **Ms. Hirdya**, Research scholar, Department of Geotechnology, M. S. University, Tirunelveli; **Dr. Savariraj Sahayam**, Assistant Professor **CARISAM**, Sashtra University, Tanjore and **Dr. G. Subash**, **M. D (s)** Govt. Siddha Medical College, Palayamkottai for their

kind encouragements and helps which help me to complete my research work successfully.

I thank my colleagues **Mr. B. Jeyasureh, Mr. Ganthi Kumar, Mrs. Mary Sujin**, St. Xavier's College Palayamkottai for their timely helps, suggestions and encouragements during my study. I express my gratitude to **Dr. K. Paulraj** Head, Department of Botany, N. M. Christian College, Martandam, for his help in collecting literatures and for his suggestion and advices when ever needed.

I proudly acknowledge indebtedness and express my deepest appreciation to my husband **J. Vincent**, elder son **V. S. Joevin**, my younger son **V. Joe Jeffrin** and to all the members of my family for their cooperation and sacrifices made to complete the thesis satisfactorily.

Once again I humbly bow in gratitude to the **God almighty** for his blessing to complete my Ph. D work.

**C. PAULINE VINCENT**