

Acknowledgement

ACKNOWLEDGEMENT

First and foremost, I would like to thank **GOD ALMIGHTY** for the showers of blessings upon me to take out this research and complete successfully.

I record my sincere thanks to **Dr. P. R. Krishna Kumar**, Chancellor, **Dr. T.S.K. Meenakshi Sundaram**, former Chancellor, Late **Thiru T.K. Shanmuganandam**, former Chancellor, **Dr. Sheela Ramachandran**, former Vice Chancellor, **Dr. Gowri Ramakrishnan**, former Registrar, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, for providing the infrastructure facilities for the conduct of the study.

I express my immense gratitude to **Dr. Premavathy Vijayan**, Vice Chancellor (i/c) and **Dr. A. Venmathi**, Registrar (i/c), Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, for the Academic support and the facilities provided to carry out the research work.

I am deeply grateful to **Dr. G. P. Jeyanthi**, Controller of Examinations (i/c), Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, for her support, encouragement and co-operation rendered towards the completion of this research.

I record my gratefulness to **Dr. A. Parvathi**, Dean, Faculty of Science, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for her timely help and encouragement in carrying out the research work.

I extend my profound gratitude to my research supervisor **Dr. P. R. Padma**, Professor, Department of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, for her meticulous care, patient guidance, intellectual inputs, constant encouragement and advice provided throughout my research work. I am deeply grateful for all her valuable efforts, necessary support and precious time for the completion of my research. I owe the entire credit of my work to her, without whom it would not have reached its destination. Apart from the subject of my research, I learnt a lot regarding academic and research related process, which I am sure, will be useful in different stages of my life and career. She always gave liberty to pursue my research work and I consider it as a great opportunity to undergo my Doctoral programme under her guidance. I solemnly submit my honest and humble thanks to her for converting my dreams into reality.

I am also extremely indebted to **Dr. S. Annapurani**, Professor and Head, Department of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and

Higher Education for Women, Coimbatore for her support and encouragement rendered towards the completion of this research.

My sincere gratitude is reserved for **Dr. R. Parvatham**, Former Dean, Faculty of Science, Former Professor and Head, Department of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for her invaluable insights and suggestions. I really appreciate her willingness to provide constant support despite her busy schedule.

I sincerely thank all the **Academic and Technical staff members**, Department of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for their encouragement and support.

I wish to thank our researcher group staff members **Dr.S.Sumathi, Dr.R.Nirmaladevi, Dr.D.Kavitha and Dr.P.Radha** for their valuable suggestions.

I would also like to record my sincere thanks to all our researcher group members **Dr.S.Radha Palaniswamy, Dr.S.Sharmila, Dr.B.Dharani, Dr.J.Sivaprabha, Ms.R.Preethi, Dr.S.T.Yamuna, Mrs.M.Mohana, Mrs.S.Sivapriyadarshini, Ms.C.Azhagumeena, Mrs.M.Jagathambal, Mrs.K.Kavithaa, Ms.K.Sonia Raj, Dr.S.Kalpana, Ms.G.T.Iswariya and Dr.T.Srinidhi Rai** for their support and help at various point of my research work.

I would like to dedicate my work to my beloved **PARENTS** for being my pillar of support all throughout my life. Words won't be enough to describe my indebtedness for all their selfless sacrifices in making me the mission of their life. I take a special moment to thank my dearest **Brothers, Sisters-in-law and Nephews** who fed me with constant courage and motivation to face the challenges of the research. My heartfelt thanks for their moral support, concern, timely advice and prayers rendered in achieving my goal.

I express my warm gratitude to the **Management, Nehru Arts and Science College**, Coimbatore and all my friends and colleagues, especially **Dr.T.H.Sukirtha, Mr.L.Krishnavignesh, Dr.M.Thenmozhi, Mr.V.Shanmugam, Dr.T.Balasaravanan, Ms.S.Visalakshi, Adv.L.Srinivasan and Mrs.V.S.Priya Sumitha** for their valuable help and suggestions rendered for the completion of the research work.

I take this opportunity to thank all my well-wishers for their constant support and prayers towards my success.

Sudha Devi, M.