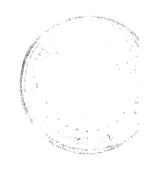
Acknowledgment



Researcher is a traveler and his research an endless journey. He keeps moving on and on in a continuous endeavor of exploring newer avenues. During this long journey, he needs to take halt and the completion of this thesis is the first halt of my journey. Today when I look back, I realize that had I been alone, I would never have reached so far in this journey. I thank one and all for accompanying me, sharing my burdens and making this journey a happy and memorable experience.

I am indebted to my research supervisor Dr. Jayashree Pohnerkar, for her precious guidance; scientific counseling and never-ending patience. I am extremely grateful to her for giving me an opportunity to explore this field, even when I had no clue about the subject. I must confess that had she not been my guide, I would certainly not have learnt molecular biology so well. She always gave me freedom to independently think, plan, execute and analyze my experiments and ensured to steer me back to track before I fumbled. It is her qualities of respecting everyone's thinking and cultivating confidence in students that I admire the most. Thanks madam...for everything.

The Biochemistry department is not just an address where I conducted my research There's something more to it....a lot more.... For past five years, the department had been my second home. I call it a home because the freedom, love, respect, concern and warmth provided by people in the department makes you feel at home, with your family.... and that's the reason we proudly call it "Biochem Family". The temperament, spirit and enthusiasm prevailing in the air of this place energizes you to put in your best effort in whatever you do. Prof. G. Nareshkumar, Head of Department whose humble and democratic nature allowed approaching him without slightest hesitation for any kind of problems or even suggestions. He always spared a ear to it and readily acted upon the required. Those tea-time discussions with him on science-and-beyond, always encouraged to 'think big' and perform better. Prof. S. D. Telang's love and concern, Prof. Rasheeda Begum's continuous encouragement, lively discussions with Dr. Acharya that sharpens one's logic, sharing lighter moments with Dr. C Ratnaprabha's- a person with great sense of humour, Dr. M D Jani's appreciations & very loving approach of Prof. Sarita Gupta, Dr. Pushpa Robin, Laxmi ma'm and Devesh sir played important role in carving my overall personality as a researcher. I am thankful to them for warmly accepting me and ensuring that I bring the best out of me.

I am also thankful to my teachers in Botany. Prof. Arun Arya, Dr. G. Pradeepkumar, Dr. Suzy Albert, Dr. Neeta Pandya, Dr. Twisha Pandya and Dr. Krishnaiyya for laying a strong foundation on which I could build my career. A very special thanks is due to Jasraisir whom I looked upon as my research idol and feel fortunate to have imbibed some of his great qualities in management of science.

Namitadidi and Keyur were nothing less then my practical teachers. They were the ones who taught me everything required in molecular biology lab, from handling a micropipette to sharing those exclusive tricks in experimental handling, which one develops by experience. They had been very considerate with my blunders and accepted me with my shortcomings. Gurmeet proved to be a great source for learning fundamentals of subject, during my early days in lab. Purva and Muktadidi must be appreciated for keeping the lab a lively and happening place to work. I have shared some of the best moments of my life with these people, in the lab.

Nimisha, Miral, Shailendra, Dhruva, and above all Ankit, who worked with me for their M. Sc. dissertation, were the hidden sources of energy that boosted my output. I appreciate their sincerity, punctuality, obedience and dedication for work that helped me learn a few things from them as well.

Moving beyond lab, the first names that come to my mind are my long time friends Niraj, Leena, Meera, Bhavisha, and Kalpana. I thank them for being a continuous source of motivation and a sink for my frustrations. Rajan & Bhavita provided me with much needed guidance whenever I got confused. These angels provided me with much needed comfortzone and accepted me the way I am. In my oddest times they stood by me whenever I wanted them... the way I wanted them.

Some of the most memorable moments that I shall cherish throughout my life are those spent with the Biochem gang, each with a character reflecting their unique personality; Innocent Niraj, Humour king-Keyur, Namitadidi — everyone's sister, Sincere Shajil, Jazzy Jyotika, Ever Smiling Heena, Gopit — the loud speaker, Angry Young Man Prashant, Creative Aditi, Cool Gisha, Iqbal - always on stage, Hiren — the Sarkar, Chirayu-the nocturnal, Prakash-the sprinter, Volcanic Vikas, Stylish Purva, Soft spoken Divya and finally the Happy-go-lucky-guy Hemendra. Collective involvement and high energy levels of each one in anything and everything, irrespective of its revelance, made the department most happening place. Prahantkumar, Chancal, Hemanta, Swapnali, Mrunal, Anubha, Nidheesh, Mitesh,

Naresh, Vijay and Purna were the new ingredients to the recipe that provided improved flavour and taste of it. Amazingly confident Vijay Mane and Workoholic Sandeep proved contagious to me and I am thankful to them for it.

I am extremely thankful to Mr. Magan Patel, for extending help and guidance at the critical time, when I needed it the most. I take this opportunity to heartly thank Dr. Sandeep Shah, Dr. Mihir Patel and Dr. Rakesh Shah who understood my requirements with a humanitarian veiw and ensured that at any point, my research does not get affected. They helped in timely completion of my work.

I am grateful to Mrs. Neeta Dhar the Development Officer, for positively attending our fellowship issues and getting them resolved. I must also thank Mr. Chirag Bhatt for his support, timely intimations and updates regarding the fellowship. I must appreciate Milindbhai for his helping hand in the administrative procedures of thesis submission process.

I thank the almighty for giving me parents who always gave priority to my research over everything else. It is their careful and dedicated up-growing that I could become what I am today. I thank my father for his patience and confidence in me. I don't get any words to describe my mom's contribution as every word appears very small to her great persona. I simply bow down to pay gratitude to my parents. I am deeply grateful to 'The Thakers', 'The Janis', 'The Trivedis', 'The Bhatts' and 'The Shelats' for providing the much needed care, love and support and being considerate with my absentisms.

You never thank yourself, especially if u already know that it's the brighter side of you. During this journey I discovered the better-half of mine... Charul. She proved to be a soft sponge that soaked all my aggravations and frustrations to provide me comfort, during those never-ending delays. She is the one who knows me more than I do, which makes me more confident about my journey onwards.

A help is help, may it be in any form, ranging from Ketan's Tea at our all time favourite 'Circle' to Bill Gates for creating MS office and CIA for developing Internet. I thank one and all who have helped me perceptibly or otherwise, in achieving my goal.

MAULIK N. THAKER