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## ACKNOWLEDGEMENTS

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*"What is Research, but a blind date with knowledge,  
serving to turn stumbling stones into building rocks"*

*Working on a research project needs guidance, support, inspiration and encouragement. Getting such help, I feel, is comparable to our human body Almighty has given us a wonderful body in which all the organs and organ systems have their own function. These systems work synchronously to live a healthy life. Similarly, my project work was like a human body where many people helped me in some or the other way for its successful completion. At this juncture, I would like to express my deep gratitude to one and all.*

*Nervous system is a highly specialized and organized system that controls and integrates the functions of the human body. The brain is the seat from which many thoughts and ideas emerge. This seat of ideas for my work was my esteemed guide Prof. Dr. Anita A. Mehta, M. Pharm., Ph.D., MAMS. It's the nervous system which regulates the body's activities and is responsible for thoughts, perceptions, behaviour, mood and all the voluntary activities. Similarly Anita madam inspite of her busy schedule always regulated her time and spared her precious moments for me. Always in her cheerful behaviour and mood she helped me turn my thoughts into reality by her innovative ideas, thoughts, concepts and notions making my work very interesting and at the same time enjoying. My work would not have been possible without her encouragement, support, and guidance. With deep sense of gratitude I would like to thank her sincerely.*

*Blood is specialized connective tissue which helps in transportation of gases and nutrients and maintaining water and acid-base balance in the body. I would like to thank our principal Dr. M. C. Gohel, for supplying all the nutrients i.e. infrastructure and facilities for my work and extending his helping hand whenever needed.*

*I would like to thank Dr. R. V. Bhatt, HOD, Department of Pharmacology for maintaining the homeostasis of my project. Homeostasis is the mechanism regulating the integrity of the body fluids and is the key to longevity of life. Similarly, Bhatt Sir helped me in regulating the integrity of my work in an orderly fashion. Additionally I cannot forget to*

*thank Sunita Madam, who with smile on her smiling face helped me in maintaining the homeostasis of my project work, I also thank Parloop Madam for her constructive criticism.*

*Nerve fibres are important part of the nervous system having the characteristic properties of excitability and conductivity. Dr. Avani F. Amin, I/c Director & Principal, Institute of Pharmacy, Nirma University, was like nerve fibre for me. With smallest of my efforts and achievement during my research work, she would be happy and excited and always conducted positive energy and inspiration to work harder and harder to achieve the goals. I express my sincere heartfelt thanks to her. At this point, I also thank all the faculty members of Institute of Pharmacy, Nirma University for their support and co-operation.*

*Cell is the basic structural and functional unit of the body. I am extremely grateful to all my teachers of B. Pharm. and M. Pharm. who have provided the basic knowledge to me and thus formed the basic functional unit. Many cells unite to form tissues, tissues form the organs which form the organ system and various organ systems form the entire human body. Similarly, there are many cells who have contributed to my development and I would like to thank all of them, in particular to Maya Madam, Suhagia Sir, Chabria Sir, Bhalara Sir and Bakula Madam.*

*I would also express my gratitude to my special sense organs ear and eye i.e. Snehal didi and Rupaben who sensed my problems and helped me in overcoming it as and when required. Whenever I was stuck up with any kind of problem, Snehal did would calmly and patiently listen to my problems and help me willingly, without any resistance or hesitation. She would go an extra mile and find out the solutions to my problem and help me make my path smoother and clearer. Any help asked and Rupaben would make all her efforts to let my all my problems solved.*

*Liver synthesizes, secretes, metabolizes and detoxifies various substances in the body. Mr. P. Balakumar served as liver by helping me perform important part of my work. He helped me in metabolizing my synthesized ideas and adding important features to my research work.*

*It is the two hands and two legs which ultimately perform any kind of work in the body. Without the limbs, body won't be able to perform even the basic functions like eating or drinking. Such limb in my work was Shraddha, who would leave her work aside and help me complete my work and reach my deadlines. At this point how can I forget the M. Pharm.*

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Energy is the prime requirement for the body which is obtained from the food we eat. Unless the digestive system breaks down the food, digests it and absorb the nutrients, energy will not be available. A special thanks to my **phuphaji and bhujaji** for digesting and absorbing my problems during my work like my parents. Also without **Nitin and Amit**, it would have been impossible get the energy for my work. I whole-heartedly thank all of them for helping me in all the possible ways they could.

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