

Acknowledgements

I am grateful to my major advisor, Dr. Carole Cramer, for giving me the opportunity to join her lab. She is a wonderful person and the greatest scientist I've ever met. I'll miss working in her lab and having her enthusiasm around.

I would also like to thank the other members of my committee, Dr. Cynthia Denbow and Dr. Brenda Shirley for their guidance and support.

My thanks to Dr. Kriton Hatzios, department head, for his support in my efforts to earn a M.S. degree.

I want to thank my colleagues in the lab of Dr. Cramer who all became great friends: Selester Bennett, Angie Mc Carthy, Eugenia McMeans, Fabricio Medina-Bolivar and Yuying Tian. I enjoyed working with them and I will truly miss them.

I'd like to thank my special friends Eva Jud, Carlos Ferrufino, Kerem Topuz and Roberto Gardoni. I'll never forget the fun time we all had together. They'll always be in my memory.

Finally I am grateful to my parents and family for their love and trust. They're the best family one could wish for.