Acknowledgments

I would like to express my sincere gratitude to Prof. R. Jérôme, the director of Centre for Education and Research on Macromolecules (CERM) in University of Liege, for giving me the opportunity to accomplish my Ph.D. thesis and for his continuous support and encouragement. Greatly thanks for his dedicated revision and insightful comments of the manuscripts.

I would like to deeply thank Dr. Ph. Lecomte for a large number of good suggestions and fruitful discussions during three years of my studies.

I would like to acknowledge Prof. A. F. Noels, Prof. A. Demonceau, Dr. C. Detrembleur and Dr. C. Jerome for sharing their rich knowledge.

I am grateful to Prof. Hans R. Kricheldorf, Prof. Ph. Dubois, Prof. A. Demonceau, Dr. Ch. Detrembleur, Dr. Ph. Lecomte, and Prof. R. Jérôme for accepting to be members of the jury of my thesis.

I am greatly indebted to Ms. Krystyna Pezzetti, Ms. Valerie Collard and Ms. Enza Esposito for their friendship and various helps. I will treasure up all of those wonderful memories.
A special thank goes to Silvia Blacher for her providing me with a ZEISS Axioplan microscope, and also for her friendship.

Thanks also go to S. Gabriel, V. Schmitz, R. Riva, B. Grignard, L. Urbanczyk, E. Naveau, J-M. Thomassin, A. Debuigne, V. Sciannamea, C. Vieujean and M. Dejeneffe for their kind supports.

Last, but not least, I wish to thank my parents and my husband for their unconditional support, encouragement and love. Thanks also go to my daughter and son for filling me to the brim with happiness.