CONTENTS

Chapter 1. Introduction and organization of the thesis 9
Chapter 2. Liposomes for intravenous drug targeting: design and applications 19
Chapter 3. Joint targeting of glucocorticoids with long-circulating liposomes induces complete remission of experimental arthritis 41
Chapter 4. Liposomal targeting of glucocorticoids to synovial lining cells strongly increases therapeutic benefit in collagen type II arthritis 57
Chapter 5. Drug targeting by long-circulating liposomal glucocorticoids increases therapeutic efficacy in a model of multiple sclerosis 73
Chapter 6. Liposome-encapsulated prednisolone phosphate inhibits tumor growth in mice 91
Chapter 7. Therapeutic index of glucocorticoids can be optimized by encapsulating high-clearance glucocorticoids in long-circulating liposomes 107
Chapter 8. Complement activation - related hypersensitivity reactions caused by PEGylated liposomes. Search for an alternative long-circulating liposome formulation without complement activation 123
Chapter 9. A novel family of L-amino acid-based polymer-lipid conjugates for the development of long-circulating liposomes with effective drug targeting capacity 137
Chapter 10. Summarizing discussion 159

Appendices  
Samenvatting in het Nederlands 173  
List of abbreviations 182  
Curriculum Vitae 184  
List of publications 185  
Acknowledgements 186