

CONTENTS

VOORWOORD		9
chapter 1	General Introduction	13
<hr/>		
PART 1	TUBERCULOUS MENINGITIS	21
<hr/>		
chapter 2	Twenty Years of Pediatric Tuberculous Meningitis: a Retrospective Cohort Study in the Western Cape of South Africa	23
chapter 3	Animal Models to Study Tuberculous Meningitis	43
chapter 4	A New Murine Model to Study the Pathogenesis of Tuberculous Meningitis	57
<hr/>		
PART2	IMMUNOGENETICS OF MENINGOCOCCAL AND PNEUMOCOCCAL MENINGITIS	67
<hr/>		
chapter 5	Genetic Variation of Innate Immune Response Genes in Invasive Pneumococcal and Meningococcal Disease Applied to the Pathogenesis of Meningitis	69
chapter 6	Single Nucleotide Polymorphisms in <i>TLR9</i> are Highly Associated with Susceptibility to Bacterial Meningitis in Children	101
chapter 7	Toll-Like Receptor 9 Polymorphisms are Associated with Severity Variables in a Cohort of Meningococcal Meningitis Survivors	117
chapter 8	Single Nucleotide Polymorphisms in Innate Immune Response Genes Affect the Susceptibility to Meningococcal Meningitis: Genetic Traits and Pathway Analysis	133
chapter 9	Polymorphisms in Toll-like Receptors 2, 4, and 9 are Highly Associated with Hearing Loss in Survivors of Bacterial Meningitis	149
chapter 10	General Discussion	169
	Summary	185
	Samenvatting	191
ADDENDUM		195
	Authors and Affiliations	197
	About the Author	199
	List of Publications	201
	Abbreviations	203