

CONTENTS

PUBLICATIONS AND MANUSCRIPTS BASED ON THE STUDIES DESCRIBED IN THIS THESIS		8
ABBREVIATIONS		9
PART I		INTRODUCTION
CHAPTER 1		
General introduction: Age-related maculopathy		13
CHAPTER 2		
Pathogenesis and histology of age-related maculopathy		15
2.1	Anatomy of the normal retina	15
2.2	Aging of the retina	15
2.2.1	Theories on cellular aging	15
2.2.2	Oxidative stress	17
2.2.3	Apoptosis	17
2.3	Age-related maculopathy	20
2.3.1	Pathogenesis of age-related maculopathy	20
2.3.2	Early stages of age-related maculopathy	21
2.3.3	Geographic age-related macular degeneration	23
2.3.4	Exudative age-related macular degeneration	24
2.4	Therapeutic modalities	31
CHAPTER 3		
Aim of the Thesis		33
PART II		MOLECULAR ASPECTS OF THE AGING RETINA
CHAPTER 4		
Apoptosis is present in the primate macula at all ages		37

CHAPTER 5		
Role of Fas-ligand in age-related maculopathy not established		49
PART III MOLECULAR ASPECTS OF NEOVASCULAR AGE-RELATED MACULAR DEGENERATION		
CHAPTER 6		
Insulin-like growth factor-I and its receptor in neovascular age-related macular degeneration		59
CHAPTER 7		
Insulin-like growth factor-binding proteins in neovascular age-related macular degeneration		71
CHAPTER 8		
Somatostatin receptor 2A expression in choroidal neovascularization secondary to age-related macular degeneration		85
CHAPTER 9		
Radiotherapy of neovascular age-related macular degeneration; a clinical and pathological study		97
CHAPTER 10		
General considerations and future prospects		107
REFERENCES		111
SUMMARY		131
SAMENVATTING VOOR NIET-DESKUNDIGEN		133
CURRICULUM VITAE		137
DANKWOORD		138