Contents

Chapter 1  General introduction  9

Chapter 2  Novel combination of collagen dynamics analysis and transcriptional profiling reveals fibrosis-relevant genes and pathways  17

Chapter 3  Extracellular matrix proteins: a positive feedback loop in lung fibrosis?  41

Chapter 4  Cyclic mechanical stretch reduces myofibroblast differentiation of primary lung fibroblasts  65

Chapter 5  Role of caveolin-1 in fibrotic diseases  79

Chapter 6  General discussion  103

General abstract  121

Algemene samenvatting  127

Dankwoord  133

About the author  139