# TABLE OF CONTENTS

**Chapter 1**  
Introduction & Aim of the study  

**Chapter 2**  
Mutation-specific effects on thin filament length in thin filament myopathy  

**Chapter 3**  
Dysfunctional sarcomere contractility contributes to muscle weakness in *ACTA1*-related nemaline myopathy (NEM3)  

**Chapter 4**  
Muscle weakness in respiratory and peripheral skeletal muscles in a mouse model for nebulin-based nemaline myopathy  

**Chapter 5**  
Effect of levosimendan on the contractility of muscle fibers from nemaline myopathy patients with mutations in the nebulin gene  

**Chapter 6**  
Summary, Discussion & Future perspectives  

**Chapter 7**  
Nederlandse Samenvatting  

**Acknowledgements**  

**List of Publications & *Curriculum Vitae***