

## CONTENTS

CHAPTER 1	Introduction .....	3
CHAPTER 2	Unaffected contractility of diaphragm muscle fibers in humans on mechanical ventilation .....	17
CHAPTER 3	Diaphragm muscle fiber weakness and ubiquitin-proteasome activation in critically ill patients .....	39
CHAPTER 4	Diaphragm fiber strength is reduced in critically ill patients and restored by a troponin activator .....	69
CHAPTER 5	Impaired mitochondrial dynamics and decreased complexes in diaphragm fibers of critically ill patients .....	85
CHAPTER 6	Summary, discussion and future perspectives .....	107
CHAPTER 7	Samenvatting .....	115
	Bibliography .....	121
	Dankwoord .....	131
	Curriculum Vitae .....	135
	List of Publications .....	137