

CONTENTS

Chapter 1	General introduction and outline of the thesis	9
Chapter 2	Protein phosphatase 2A affects myofilament contractility in non-failing but not in failing human myocardium	25
Chapter 3	Impact of site-specific phosphorylation of protein kinase A sites Ser23 and Ser24 of cardiac troponin I in human cardiomyocytes	49
Chapter 4	Modulation of length-dependent activation by cardiac troponin I phosphorylation at the protein kinase C site Thr143 and the protein kinase A sites	71
Chapter 5	Phosphorylation of protein kinase C sites Ser42/44 decreases Ca ²⁺ -sensitivity and blunts enhanced length-dependent activation in response to protein kinase A in human cardiomyocytes	95
Chapter 6	Increased Ca ²⁺ -sensitivity at low Ser199 pseudo-phosphorylation at the C-terminus of cardiac troponin I in human cardiomyocytes	121
Chapter 7	Perturbed length-dependent activation in human hypertrophic cardiomyopathy with missense sarcomeric gene mutations	137
Chapter 8	Summary, Conclusion & Future perspectives	167
Chapter 9	Nederlandse samenvatting	183
	List of Publications	189
	Dankwoord	193
	Curriculum vitae	197