Contents

Chapter 1  General introduction and outline of the thesis  9

Chapter 2  Opposite effects of training in rats with stable and progressive Pulmonary Hypertension  17
            Circulation 2009; 120: 42-49

Chapter 3  Effects of exercise training in patients with idiopathic Pulmonary Arterial Hypertension  41
            Eur Resp J 2009; 34: 669-675

Chapter 4  Differential effects of exercise training on myofilament phosphorylation and function in stable and progressive Pulmonary Hypertension  55

Chapter 5  Improved survival and cardiac function by cardioselective beta-blocker therapy in experimental Pulmonary Hypertension  71
            Circulation 2010: Under revision

Chapter 6  Diaphragm muscle weakness in Pulmonary Arterial Hypertension  91
            Am J Respir Crit Care Med 2010: Under revision

Chapter 7  Conclusions and future perspectives  109

Chapter 8  Summary  115

Chapter 9  Nederlandse Samenvatting  121

Dankwoord  127

List of Publications  135

About the Author  141