Contents

Chapter 1 General introduction and outline of the thesis: Diabetic glucolipotoxic cardiomyopathy: does it exist in humans? 9
   In preparation

Chapter 2 Association of plasma osteoprotegerin and adiponectin with arterial function, cardiac function and metabolism in asymptomatic type 2 diabetic men 49
   Cardiovasc Diabetol 2011;10:67

Chapter 3 Activin A is associated with impaired myocardial glucose metabolism and left ventricular remodeling in patients with uncomplicated type 2 diabetes 67
   Cardiovasc Diabetol 2013;12:150

Chapter 4 Cardioprotective properties of omentin-1 in type 2 diabetes: evidence from clinical and in vitro studies 83
   PLoS One 2013;8:e59697

Chapter 5 Impact of type 2 diabetes mellitus on epicardial adipose tissue volume and coronary vasomotor function 107
   Am J Cardiol 2014;113:90-7

Chapter 6 Effects of exenatide on cardiac function, perfusion, and energetics in type 2 diabetic patients with cardiomyopathy: a randomized controlled trial against insulin glargine 123
   Submitted

Chapter 7 General summary, discussion and future perspectives 147

Chapter 8 Dutch summary - Nederlandse samenvatting 157

Addendum List of publications 167
Co-Author affiliations 171
Dankwoord 175
Curriculum Vitae 181