

# CONTENTS

<b>Chapter 1</b>	General Introduction	9
<b>Chapter 2</b>	Suitability of dermis versus adipose tissue as adult stem cell source in one-step surgical procedure for cartilage tissue engineering [Original title: Chemokine-Mediated Migration of Skin-Derived Stem Cells: Predominant Role for CCL5/RANTES]	33
<b>Chapter 3</b>	Effect of tissue-harvesting site on yield of stem cells derived from adipose tissue: implications for cell-based therapies	57
<b>Chapter 4</b>	Freshly isolated stromal cells from the infrapatellar fat pad are suitable for a one-step surgical procedure to regenerate cartilage tissue	77
<b>Chapter 5</b>	Hyperosmolarity and hypoxia induce chondrogenesis of adipose derived stem cells in a collagen type 2 hydrogel	97
<b>Chapter 6</b>	Rapid Attachment of Adipose Stromal Cells on Resorbable Polymeric Scaffolds Facilitates the One-Step Surgical Procedure for Cartilage and Bone Tissue Engineering Purposes	115
<b>Chapter 7</b>	One-step surgical procedure for the treatment of osteochondral defects with adipose-derived stem cells in a caprine knee defect: a pilot study	131
<b>Chapter 8</b>	General discussion	157
<b>Chapter 9</b>	Summary	168
	Samenvatting	171
	List of publications	175
	Dankwoord	176