
Contents

1 Overview: State of the Art and Future Prospectives for Cartilage Repair	1
Yangzi Jiang, Hang Lin, and Rocky S. Tuan	
2 MSC Populations for Cartilage Regeneration	35
Roberto Narcisi, Mairéad A. Cleary, Kavitha Sivasubramaniyan, Pieter A.J. Brama, and Gerjo J.V.M. van Osch	
3 Chondrogenic Progenitor Cells and Cartilage Repair	59
Diana Oellerich and Nicolai Miosge	
4 Induced Pluripotent Stem Cells and Cartilage Regeneration.	73
Solvig Diederichs and Wiltrud Richter	
5 Cell-Based Cartilage Regeneration	95
Johannes Zellner and Peter Angele	
6 Growth Factors in Cartilage Repair	109
Maximilian A. Meyer, Atsushi Urita, Brian J. Cole, and Susanna Chubinskaya	
7 The Role of Platelet-Rich Plasma in Cartilage Repair	127
Elizaveta Kon, Giuseppe Filardo, Berardo Di Matteo, and Maurilio Marcacci	
8 Subchondral Bone in Articular Cartilage Regeneration.	139
Arndt F. Schilling	
9 Gene Transfer Strategies for Articular Cartilage Repair	151
Magali Cucchiari	
10 Tissue Engineering Strategies for Cartilage Repair	169
Holger Jahr	
11 Animal Models in Cartilage Repair	189
Lars Goebel, Liang Gao, and Henning Madry	



<http://www.springer.com/978-3-319-53314-8>

Cartilage

Volume 3: Repair Strategies and Regeneration

Grässel, S.; Aszódi, A. (Eds.)

2017, XIII, 206 p. 23 illus., 19 illus. in color., Hardcover

ISBN: 978-3-319-53314-8