Contents

Preface		V
Chapter 1	Biofilm-related Infections: Orthopedic Considerations and Implications Noreen J Hickok, Irving M Shapiro, Javad Parvizi, Marc Harwood, Antonia F Chen	1
Chapter 2	New Advances in Skeletal Adaptation to Load Jino Park, Ryan E Tomlinson	9
Chapter 3	New Potential Biomarkers for Musculoskeletal Disease: Extracellular Vesicle (Exosomes) Analysis Irving M Shapiro, Antonia F Chen, Theresa Freeman, Noreen J Hickok	21
Chapter 4	Pathogenesis of Degenerative Disk Disease: New Research Findings and Treatments Deborah J Gorth, Makarand V Risbud, Irving M Shapiro	33
Chapter 5	Research Advances in Understanding the Genetic Basis of Hip Disease George Feldman, Javad Parvizi, Myles Dworkin	43
Chapter 6	Targeting Fibrosis to Reduce Post-traumatic Joint Stiffness <i>Andrzej Fertala</i>	53
Chapter 7	Microenvironmental Cues in Tendon Injury and Repair Rowena McBeath, Richard W Edwards, A Lee Osterman	63