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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1. Pathogenesis of Osteoarthritis -- 2. Hip and Knee Osteoarthritis -- 3. Shoulder and Elbow Osteoarthritis -- 4. Lumbar Spine Osteoarthritis -- 5. Ankle Arthritis -- 6. Hand and Wrist Osteoarthritis -- 7. Imaging in Osteoarthritis -- 8. Osteoarthritis – Joint Conservation Strategies -- 9. Osteoarthritis Biomarkers -- 10. Drug/Agent Treatments for Osteoarthritis- Present and Future -- 11. Safety Profile of Current OA Therapies: Evidence from Clinical Trials -- 12. Regenerative Medicine Approaches for Treatment of Osteoarthritis -- 13. Precision Medicine for Osteoarthritis.
Sommario/riassunto	This comprehensive book grants readers exclusive insight into current advancements in the field of osteoarthritis (OA). Contributions from leading scientists and clinicians provide a detailed introduction into current understanding of the pathogenesis of OA, different joint structures affected by this debilitating disease (hip, knee, elbow, shoulder, foot, ankle, hand, wrist, and spine), current knowledge and practice in imaging, joint conservative strategies, OA biomarkers as well as currently available treatments, their safety profile and future therapeutic targets. This book further discusses the potential of regenerative therapies and recent advances in OA Personalized Medicine, and how collection of OA patients' phenotypic, genetic and

proteomic data is able to direct treatment strategies through Bio-Informatics. Dr. Mohit Kapoor is an Associate Professor in the Department of Surgery and the Department of Laboratory Medicine and Pathobiology at the University of Toronto, Canada. He heads the cartilage biology research group within the Arthritis Program at the Toronto Western Research Institute, University Health Network, Toronto. His research program is directed towards understanding the complex pathophysiology of OA and identifying new therapeutic strategies to identify and counteract the destruction of the articular cartilage during OA. Specifically, his research is focused towards (a) understanding the mechanisms that are essential for maintaining articular cartilage homeostasis and mechanisms that trigger cell death and articular cartilage damage, and (b) identifying new OA biomarkers. Dr. Kapoor has published over 50 research articles, reviews and book chapters and is a recipient of several prestigious research awards. Dr. Nizar Mahomed is head of the Division of Orthopaedic Surgery at the University Health Network and Professor in the Department of Surgery at the University of Toronto, Canada. He is Nicki and Bryce Douglas Chair and Smith & Nephew Chair in Orthopaedic Surgery. Clinically he focuses on complex primary and revision hip and knee replacement surgery. He has over 100 publications and book chapters. His research interests are in the areas of health systems research focusing on models of care for orthopaedic conditions and translational research looking at regenerative options for OA. Dr. Mahomed has received several awards for his research and is the recipient of the first CIHR-CMAJ Top Canadian Achievements in Health Research Award. As Medical Director of the Arthritis Program at University Health Network, he leads the largest integrated Arthritis Program in Canada.

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