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Titolo	Biomechanics at micro- and nanoscale levels . Volume II [[electronic resource] /] / editor, Hiroshi Wada
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ISBN	1-281-91913-6 9786611919139 981-277-383-5
Descrizione fisica	1 online resource (viii, 168 p.) : ill. (some col.)
Altri autori (Persone)	WadaHiroshi <1949->
Disciplina	571.43
Soggetti	Biomechanics Cells - Mechanical properties
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Heterogeneous Expression of the Motor Protein; Effects of Actin Filaments on Anisotropy and Stiffness of Aortic Smooth Muscle Cells; Micro-Vessel Network Formation of Endothelial Cells; Mechanical Behaviors of Articular Cartilage and Chondrocytes; Reorganization of Cytoskeletal Actin Structure in Osteoblastic Cells; Morphology of Endothelial Cells in Response to Hydrostatic Pressure; Mechanosensing in Intestinal Villi; Microelements for Cartilage Tissue Engineering; Interrelationship Between Water Filtration Velocity and the Thicknesss of Pseudointima; Strengthening of Fibrous Tissues Under Mechanical Stimuli; Assessment of Cortical Bone Microstructure Using Monochromatic Synchrotron Radiation Micro-CT; Numerical Study on Particle Presentations of Blood Cells and the Plasma in Microvascular Blood Flow; Mechanical Models of Skeletal Muscle; Stimulation of the Effects of Actin Binding and Cellular Deformation on the Orientation of Actin Stress Fibers.
Sommario/riassunto	Intended for those interested in understanding research trends in biomechanics at micro- and nanoscale levels, this book details the research carried out in this field by 14 prominent researchers. It covers cell mechanics, cell response to mechanical stimulation, tissue engineering, and computational biomechanics.

