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| Titolo | Cartilage [[electronic resource] ] : Volume 1: Physiology and Development / / edited by Susanne Grässel, Attila Aszódi |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016 |
| ISBN | 3-319-29568-3 |
| Edizione | [1st ed. 2016.] |
| Descrizione fisica | 1 online resource (275 p.) |
| Disciplina | 610 |
| Soggetti | Human physiology<br>Orthopedics<br>Cell biology<br>Human Physiology<br>Cell Biology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters. |
| Nota di contenuto | 1. Physiology -- 1.1 Growth and development -- Andrea Vortkamp: Molecular control of cartilage differentiation -- Danny Chan or Maurizio Pacifici: Joint development -- Bent Brachvogel: Immunology and growth plate cartilage -- Christa Maes: VEGF in endochondral bone formation -- 1.2 Cartilage extracellular matrix -- Anders Aspberg: Proteoglycans of the cartilage extracellular matrix -- Peter Bruckner or John Bateman: Supramolecular structure of cartilage – the collagens -- 1.3 Biomechanics -- Peter Angele: Cartilage biomechanics -- Farshid Guilak: Biomechanics and cartilage repair -- 1.4 Chondrocytes and signaling -- Christine Hartmann: Chondrogenesis and Wnt signaling -- Kay Grobe: Hedgehog signaling and chondrocytes -- Frank Beier: Chondrocytes and the actin cytoskeleton. |
| Sommario/riassunto | In three Volumes this mini book series presents current knowledge and new perspectives on cartilage as a specialized yet versatile tissue. This first volume provides a comprehensive overview on the basic composition and development of cartilaginous tissues followed by the description of the major signaling pathways which regulate cartilage morphogenesis and function. This book addresses Professors, |

researchers and PhD students who are interested in musculoskeletal and cartilage biology.