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| Titolo | Facilitative glucose transporters in articular chondrocytes [[electronic resource]] : expression, distribution and functional regulation of GLUT isoforms by hypoxia, hypoxia mimetics, growth factors and pro-inflammatory cytokines / / Ali Mobasheri ... [et al.] |
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| Altri autori (Persone) | MobasheriA (Ali) |
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| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Articular Cartilage: Structure, Function, and Pathophysiology -- Does Arthritis Have a Nutritional Etiology? -- Metabolic Dysfunction in Arthritis -- Glucose: An Essential Metabolite and Structural Precursor for Articular Cartilage -- Mammalian Sugar Transporter Families: GLUT and SGLT -- Molecular Diversity of Facilitative Glucose Transporters in Articular Chondrocytes -- Regulation of Glucose Transport by Nonsteroidal Anti-inflammatory Drugs -- Glucose Transporters in the Intervertebral Disc -- Glucose Transporter Expression and Regulation in Embryonic and Mesenchymal Stem Cells -- Concluding Remarks. |
| Sommario/riassunto | Articular cartilage is a unique and highly specialized avascular connective tissue in which the availability of oxygen and glucose is significantly lower than synovial fluid and plasma. Glucose is an essential source of energy during embryonic growth and fetal development and is vital for mesenchymal cell differentiation, chondrogenesis and skeletal morphogenesis. Glucose is an important |

metabolic fuel for differentiated chondrocytes during post-natal development and in adult articular cartilage and is a common structural precursor for the synthesis of extracellular matrix glycosaminoglycans.
