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Facilitative Glucose Transporters in Articular Chondrocytes

Articular cartilage is a highly specialized avascular connective tissue. This multidisciplinary article reviews the molecular and morphological aspects of GLUT expression and function in chondrocytes and their mesenchymal and embryonic stem cell precursors.

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Glucose is a vital metabolic gas for differentiated chondrocytes in the course of post-natal improvement and in grownup articular cartilage and is a typical structural precursor for the synthesis of extracellular matrix glycosaminoglycans. Glucose metabolism is necessary for progress plate chondrocytes which perform lengthy bone development. Glucose concentrations in articular cartilage can

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Glucose transporter Wikipedia

Glucose transporters are a wide group of membrane proteins that facilitate the transport of glucose across the plasma membrane. Because glucose is a vital source of energy for all life, these transporters are present in all phyla .

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Facilitative glucose transporters in articular

Facilitative glucose transporters in articular chondrocytes : expression, distribution and functional regulation of GLUT isoforms by hypoxia, hypoxia mimetics, growth factors and pro-inflammatory cytokines

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Facilitative glucose transporters in articular

Mobasheri, A, Bondy, CA, Moley, K, Mendes, AF, Rosa, SC, Richardson, SM, Hoyland, JA, Barrett-Jolley, R and Shakibaei, M (2008) Facilitative glucose transporters in articular chondrocytes. Expression, distribution and functional regulation of GLUT isoforms by hypoxia, hypoxia mimetics, growth factors and pro-inflammatory cytokines.

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Molecular characterization and partial cDNA cloning of

Molecular characterization and partial cDNA cloning of facilitative glucose transporters expressed in human articular chondrocytes; stimulation of 2-deoxyglucose uptake by IGF-I and elevated MMP-2 secretion by glucose deprivation

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Molecular characterization and partial cDNA cloning of

Objective Recent evidence suggests that human chondrocytes express several facilitative glucose transporter (GLUT) isoforms and also that 2-deoxyglucose transport is accelerated by cytokine stimulation. The aim of the present investigation was to determine if human articular chondrocytes express any of the recently identified members of the

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Glucose is a crucial metabolic gasoline for differentiated chondrocytes in the course of post-natal improvement and in grownup articular cartilage and is a typical structural precursor for the synthesis of extracellular matrix glycosaminoglycans. Glucose metabolism is important for progress plate chondrocytes which perform lengthy bone progress. Glucose concentrations in articular cartilage

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Expression of the GLUT1 and GLUT9 facilitative glucose

The facilitated transport of glucose across the chondrocyte membrane represents the rate-limiting step in glucose metabolism and is essential for the functional integrity of articulating joints (Mobasheri et al., 2002b, Shikhman et al., 2001).

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