

Supplementary

Table S1. List of excluded studies with reason for exclusion.

Authors et al. (Year)	Title	Reason for Exclusion
Vaamonde-Garcia et al. (2019)	15-Deoxy- Δ -12, 14-prostaglandin J2 acts cooperatively with prednisolone to reduce TGF- β -induced pro-fibrotic pathways in human osteoarthritis fibroblasts.	Focused question not answered
Guan et al. (2015)	The role of cyclooxygenase-2, interleukin-1 β and fibroblast growth factor-2 in the activation of matrix metalloproteinase-1 in sheared-chondrocytes and articular cartilage.	Focused question not answered
Sakaba et al. (2014)	15-Deoxy- Δ 12,14-prostaglandin J2 induces PPAR γ - and p53-independent apoptosis in rabbit synovial cells.	Focused question not answered
Wang et al. (2013)	Fluid shear stress-induced osteoarthritis: roles of cyclooxygenase-2 and its metabolic products in inducing the expression of proinflammatory cytokines and matrix metalloproteinases.	Review
Wang et al. (2012)	The antagonistic actions of endogenous interleukin-1 β and 15-deoxy- Δ 12,14-prostaglandin J2 regulate the temporal synthesis of matrix metalloproteinase-9 in sheared chondrocytes.	Focused question not answered
Lin et al. (2011)	15-deoxy- Δ (12,14) -prostaglandin-J2 and ciglitazone inhibit TNF- α -induced matrix metalloproteinase 13 production via the antagonism of NF- κ B activation in human synovial fibroblasts.	Focused question not answered
Wang et al. (2011)	Interleukin-6 synthesis in human chondrocytes is regulated via the antagonistic actions of prostaglandin (PG)E2 and 15-deoxy- Δ (12,14)-PGJ2.	Focused question not answered
Scher and Pillinger (2009)	The anti-inflammatory effects of prostaglandins.	Review article
Hanks et al. (2010)	Evaluation of anti-inflammatory and chondroprotective effects of peroxisome proliferator-activated receptor gamma agonists in cartilage and synovial explants from dogs.	Focused question not answered
Blaho et al. (2008)	Arthritis develops but fails to resolve during inhibition of cyclooxygenase 2 in a murine model of Lyme disease.	Focused question not answered
Yoon et al. (2007)	ERK-1/-2 and p38 kinase oppositely regulate 15-deoxy-delta(12,14)-prostaglandinJ(2)-Induced PPAR-gamma activation that mediates dedifferentiation but not cyclooxygenase-2 expression in articular chondrocytes.	Focused question not answered
Lee et al. (2007)	15-deoxy-Delta 12,14-ProstaglandinJ2 regulates dedifferentiation through peroxisome proliferator-activated receptor-gamma-dependent pathway but not COX-2 expression in articular chondrocytes.	Focused question not answered
Moulin et al. (2006)	Effect of peroxisome proliferator activated receptor (PPAR)gamma agonists on prostaglandins cascade in joint cells.	Focused question not answered
Hounoki et al. (2008)	Activation of peroxisome proliferator-activated receptor gamma inhibits TNF-alpha-mediated osteoclast differentiation in human peripheral monocytes in part via suppression of monocyte chemoattractant protein-1 expression.	Focused question not answered
Li et al. (2005)	Expression and regulation of microsomal prostaglandin E synthase-1 in human osteoarthritic cartilage and chondrocytes.	Focused question not answered
Moulin et al. (2005)	Rosiglitazone induces interleukin-1 receptor antagonist in interleukin-1beta-stimulated rat synovial fibroblasts via a peroxisome proliferator-activated receptor beta/delta-dependent mechanism.	Focused question not answered

Farrajota et al. (2005)	Inhibition of interleukin-1 β -induced cyclooxygenase 2 expression in human synovial fibroblasts by 15-deoxy-Delta12,14-prostaglandin J2 through a histone deacetylase-independent mechanism.	Focused question not answered
Masuko-Hongo K. (2005)	Role of prostaglandins in rheumatoid arthritis.	Review
Cheng et al. (2004)	Activation of peroxisome proliferator-activated receptor gamma inhibits interleukin-1 β -induced membrane-associated prostaglandin E2 synthase-1 expression in human synovial fibroblasts by interfering with Egr-1.	Focused question not answered
Relic et al. (2004)	15-deoxy-delta12,14-prostaglandin J2 inhibits Bay 11-7085-induced sustained extracellular signal-regulated kinase phosphorylation and apoptosis in human articular chondrocytes and synovial fibroblasts.	Focused question not answered
Shan et al. (2004)	A potential role of 15-deoxy-delta(12,14)-prostaglandin J2 for induction of human articular chondrocyte apoptosis in arthritis	Focused question not answered
Kusunoki et al. (2004)	Triptolide, an active compound identified in a traditional Chinese herb, induces apoptosis of rheumatoid synovial fibroblasts.	Focused question not answered
Bell-Parikh et al. (2003)	Biosynthesis of 15-deoxy-delta12,14-PGJ2 and the ligation of PPAR γ .	Focused question not answered
Simonin et al. (2002)	PPAR- γ ligands modulate effects of LPS in stimulated rat synovial fibroblasts.	Focused question not answered
Cuzzocrea et al. (2002)	The cyclopentenone prostaglandin 15-deoxy-Delta(12,14)-prostaglandin J(2) attenuates the development of acute and chronic inflammation.	Focused question not answered
Meynier et al. (2002)	Design of a chimeric promoter induced by pro-inflammatory mediators in articular chondrocytes.	Focused question not answered
Fahmi et al. (2002)	Peroxisome proliferator-activated receptor gamma activators inhibit MMP-1 production in human synovial fibroblasts likely by reducing the binding of the activator protein 1.	Focused question not answered
Tsubouchi et al. (2001)	Feedback control of the arachidonate cascade in rheumatoid synoviocytes by 15-deoxy-Delta(12,14)-prostaglandin J2.	Focused question not answered
Kawahito et al. (2000)	15-deoxy-delta(12,14)-PGJ(2) induces synoviocyte apoptosis and suppresses adjuvant-induced arthritis in rats.	Focused question not answered
Yotbuntueng et al. (2022)	Differential distribution of eicosanoids and polyunsaturated fatty acids in the Penaeus monodon male reproductive tract and their effects on total sperm counts.	Focused question not answered