

The largest selection of skeletal system cells!



- High purity and low passage
- Rigorous quality control
- Cells from normal and arthritic donors
- Cells from different species
- Cell sets from the same donor
- Maximum flexibility
- Custom services
- Ready-to-use Total Kits

>150 published studies on:

- Cellular mechanisms of arthritic disease
- Joint inflammation & proteinase regulation
- Role of viruses in development of arthritis
- Development of anti-arthritic therapies
- Chondrocyte apoptosis and differentiation
- Mechanotransduction pathways
- Bone metabolism, maintenance and remodeling
- Normal and pathological physiology of synoviocytes
- Directed cell differentiation
- 3D scaffolds for tissue engineering

Primary Chondrocytes

- Chondrocytes (H, Cn, F)
- Chondrocytes-Osteoarthritis (H)
- Chondrocytes-Rheumatoid Arthritis (H)
- Chondrocytes, Re-Differentiated (H)

Primary Fibroblast-Like Synoviocytes

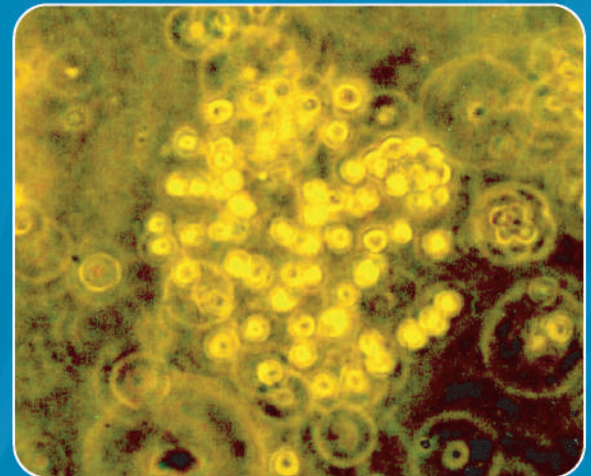
- Synoviocytes (H)
- Synoviocytes-Osteoarthritis Positive (H)
- Synoviocytes-Rheumatoid Arthritis (H)

Primary Osteoblasts

- Osteoblasts, fetal (H)
- Osteoblasts, adult (H, Cn, F, R)
- Osteoblasts-Osteoarthritis (H)
- Osteoblasts-Rheumatoid Arthritis (H)

H: Human
Cn: Canine
F: Feline
R: Rat
OA: Osteoarthritis
RA: Rheumatoid Arthritis

Human Chondrocytes, Re-Differentiated



Chondrocytes grown on solid substrate stop producing specific markers and de-differentiate to a fibroblast-like phenotype. Cell Applications, Inc. offers alginate bead-encapsulated Re-Differentiated Chondrocytes that exhibit native spherical morphology and produce Aggrecan and Type II Collagen.

Primary Marrow Stromal (Mesenchymal) Stem Cells

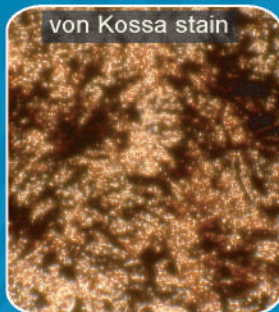
Marrow Stromal Cells (H, Cn, F, R)

Chondrocytes (OA)

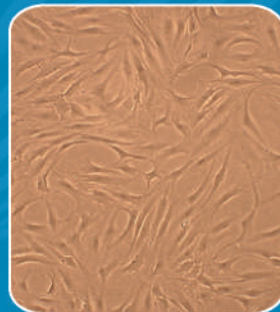


Osteoblasts

von Kossa stain

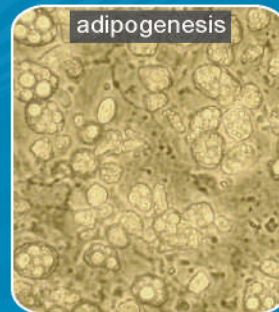


Synoviocytes (RA)



Marrow Stromal (Mesenchymal) Stem Cells

adipogenesis



osteogenesis



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