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References:

1. Ahluwalia S., Fehm M., Murray MM., Martin SD., and Spector, M. Distribution of smooth muscle actin-containing cells in the human meniscus. *J Orthop Res*, 19(4): 659-64, 2001.
2. Amiel D., Nagineni CN., Choi SH., and Lee J. Intrinsic properties of ACL and MCL cells and their responses to growth factors. *Med Sci Sports Exerc*, 27(6): 844-51, 1995.
3. Frank C., Amiel D. and Akeson WH. Healing of the medial collateral ligament of the knee. A morphological and biochemical assessment in rabbits. *Acta Orthop Scand*, 54(6): 917-23, 1983.
4. Geiger MH., Green MH., Monosov A., Akeson WH., and Amiel D. An in vitro assay of anterior cruciate ligament (ACL) and medial collateral ligament (MCL) cell migration. *Connect Tissue Res*, 30(3): 215-24, 1994.
5. Harrold, AJ. The defect of blood coagulation in joints. *J Clin Path*, 14: 305-308, 1961.
6. Kobayashi D., Kurosaka M., Yoshiya S. and Mizuno K. Effect of basic fibroblast growth factor on the healing of defects in the canine anterior cruciate ligament. *Knee Surg Sports Traumatol Arthrosc*, 5(3): 189-94, 1997.
7. Lyon RM., Akeson, WH., Amiel D., Kitabayashi LR., and Woo, SL. Ultrastructural differences between the cells of the medial collateral and the anterior cruciate ligaments. *Clin Orthop*, (272): 279-86, 1991.
8. Mesiha, M.; Soriano, J.; Neilson, J.; Zarins, B.; and Murray, M. M.: The study of the cellular viability of torn human menisci. *American Journal of Sports Medicine*, submitted, 2005.
9. Murray MM., Bennett R., Zhang X. and Spector M. Cell outgrowth from the human ACL in vitro: regional variation and response to TGF-beta1. *J Orthop Res*, 20(4): 875-80, 2002.
10. Murray MM., Martin SD., Martin TL., and Spector M. Histological changes in the human anterior cruciate ligament after rupture. *J Bone Joint Surg Am*, 82-A(10): 1387-97., 2000.
11. Murray MM., Martin, SD. and Spector M. Migration of cells from human anterior cruciate ligament explants into collagen-glycosaminoglycan scaffolds. *J Orthop Res*, 18(4): 557-64., 2000.
12. Murray MM. and Spector, M. The migration of cells from the ruptured human anterior cruciate ligament into collagen-glycosaminoglycan regeneration templates in vitro. *Biomaterials*, 22(17): 2393-402, 2001.
13. Murray MM., Zurakowski D. and Vrahas MS. The death of articular chondrocytes after intra-articular fracture in humans. *J Trauma-Injury Infection & Critical Care*, 56(1): 128-31, 2004.

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14. Nagineni CN., Amiel D., Green MH., Berchuck M. and Akeson WH. Characterization of the intrinsic properties of the anterior cruciate and medial collateral ligament cells: an in vitro cell culture study. *J Orthop Res*, 10(4): 465-75, 1992.
15. Pelinkovic D., Lee JY., Engelhardt M., Rodosky M., Cummins J., Fu F. H. and Huard J. Muscle cell-mediated gene delivery to the rotator cuff. *Tissue Engineering*, 9(1): 143-51, 2003.
16. Premdas, J., Tang JB., Warner JP., Murray MM. and Spector M. The presence of smooth muscle actin in fibroblasts in the torn human rotator cuff. *J Orthop Res*, 19(2): 221-8, 2001.
17. Qiu W., Murray MM., Shortkroff S., Lee CR., Martin SD. and Spector, M. Outgrowth of chondrocytes from human articular cartilage explants and expression of alpha-smooth muscle actin. *Wound Repair & Regeneration*, 8(5): 383-91, 2000.
18. Rosc D., Powierza W., Zastawna E., Drewniak W., Michalski A. and Kotschy M. Post-traumatic plasminogenesis in intraarticular exudate in the knee joint. *Medical Science Monitor*, 8(5): CR371-8, 2002.
19. Scherping SC Jr., Schmidt CC., Georgescu HI., Kwoh, CK., Evans CH. and Woo, S. L.: Effect of growth factors on the proliferation of ligament fibroblasts from skeletally mature rabbits. *Connect Tissue Res*, 36(1): 1-8, 1997.
20. Tumia NS., and Johnstone AJ. Promoting the proliferative and synthetic activity of knee meniscal fibrochondrocytes using basic fibroblast growth factor in vitro. *American Journal of Sports Medicine*, 32(4): 915-20, 2004.
21. Wiig ME., Amiel D., VandeBerg J., Kitabayashi L., Harwood FL. and Arfors KE. The early effect of high molecular weight hyaluronan (hyaluronic acid) on anterior cruciate ligament healing: an experimental study in rabbits. *J Orthop Res*, 8(3): 425-34, 1990.
22. Yoshida M. and Fujii K. Differences in cellular properties and responses to growth factors between human ACL and MCL cells. *J Orthop Sci*, 4(4): 293-8, 1999.
23. Yuan J. Wang MX. and Murrell GA. Cell death and tendinopathy. *Clinics in Sports Medicine*, 22(4): 693-701, 2003.