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MAJOR RESEARCH INTERESTS

1. Musculoskeletal Biomechanics
2. Functional Tissue Engineering
3. Orthopaedic Implants and Devices

SELECTED PUBLICATIONS

1. Ouyang, HW, JCH Goh, A Thambyah, SH Teoh and EH Lee, Use of knitted PLGA scaffold loaded with bone marrow stromal cells in repair and regeneration of rabbit Achilles tendon. *Tissue Engineering*, 9, 3 (2003): 431-439. (United States).
2. Shao XX, JCH Goh, DW. Hutmacher, EH Lee. Repair of large osteochondral defect using hybrid scaffolds seeded with bone marrow derived mesenchymal stem cells. *Tissue Engineering* 12(6) (2006):1539-51 (United States)
3. Thambyah A, A Nather, JCH Goh. Physical Characteristics of the Articular Cartilage beneath the Meniscus. *Osteoarthritis and Cartilage*, 14 (6) (2006):580-588 (United States)
4. Chong KS, Ang AD, Goh J, Hui J, Lim AYT, Lee EH, Lim BH. Bone marrow derived mesenchymal stem cells influence early tendon healing in a rabbit Achilles tendon model. *Journal of Bone and Joint Surgery (Am)* 2007;89:74-81
5. Ge Z, Fang F, Goh JCH, Ramakrishna S, Lee EH. Biomaterials and scaffolds for ligament tissue engineering. *Journal of Biomedical Materials Research A*. 2006 Jun;77(3):639-52
6. Sahoo S, JCH Goh, SL Toh. Development of Hybrid Polymer Scaffolds for Potential Applications in Ligament and Tendon Tissue Engineering. *Biomed. Mater.* 2 (2007) 169-173 (United States)
7. Liu HF, HB Fan, SL Toh, JCH Goh. The interaction between a combined knitted silk scaffold and microporous silk sponge with human mesenchymal stem cells for ligament tissue engineering. *Biomaterials* 29 (2008) 662–674 (United States)
8. Fan HB, HF Liu, SL Toh, JCH Goh. Enhanced differentiation of mesenchymal stem cells co-cultured with ligament fibroblasts on gelatin/silk fibroin hybrid scaffold. *Biomaterials* 29 (2008): 1017–1027 (United States)
9. Liu HF, HB Fan, SL Toh, JCH Goh. A comparison of rabbit mesenchymal stem cells and anterior cruciate ligament fibroblasts responses on combined silk scaffolds. *Biomaterials* 29(2008): 1443-1453(United States)
10. Yeow CH, CH Cheong, KS Ng, PVS Lee, JCH Goh. Anterior cruciate ligament failure and cartilage damage during knee joint compression: a porcine study. *American Journal of Sports Medicine* 2008; 36: 934-942 (United States)
11. Fan HB, Liu HF, Toh SL, Goh JCH. In vivo study of anterior cruciate ligament regeneration using mesenchymal stem cells and silk scaffold. *Biomaterials* 2008; 29: 3324-3337 (United States)