



Comparative Orthopaedic Lab

"Finding a joint solution"

www.columc.missouri.edu

Current Projects

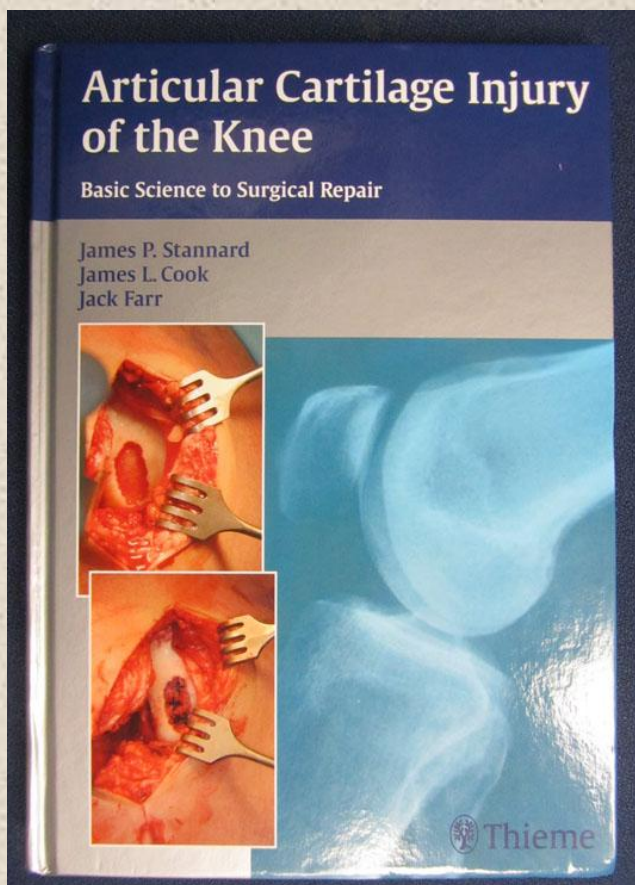
- Improving OCA Implantation Instruments
- Fresh Meniscus-OCA Grafts
- Embolization from Hemostatic Agents
- Biomarkers for Osteoarthritis
- Hypercholesterolemia and Joint Health
- Comparative Analysis of The Golden Spiral
- Optimizing ACL reconstruction
- Models for Disc Degeneration
- *In vitro* Model of Traumatic Arthritis
- Safety Testing for Joint Injections
- Novel Osteotomy for Canine CCLD
- Biologic Total Joint Arthroplasty

Last quarter's "top 5"

1. COL team's 11 presentations at The ORS Annual Meeting were great successes!
2. Dr. Kuroki receives MU Clinician Scientist Award for Biomarker Research!
3. Dr. Fox successfully repairs injured bald eagle for the Quincy Raptor Center!
4. COL & MOI team combines for 7 presentations at AAOS Annual Conference!
5. Dr. Stannard's and Dr. Cook's new book released at AAOS!



Our groundbreaking work using ultrasound for diagnosis of meniscal tears, lead by Dr. Cristi Cook and funded by NFL Charities, was featured at The American Academy of Orthopaedic Surgeons Meeting in Chicago



Dr. Stannard and Dr. Cook published a first-of-its-kind reference book with their colleague Dr. Jack Farr

Recent Pubs

1. Garner BC, et al. Expression of proteins in serum, synovial fluid, synovial membrane and articular cartilage from dogs with OA. *AJVR* 2013
2. Cook JL, et al. Comparison of long-term outcomes associated with 3 surgical techniques for treatment of CCL disease. *Vet Surg* 2013
3. Franklin SP, et al. Outcomes associated with treatments for medial, lateral, and multidirectional shoulder instability. *Vet Surg* 2013
4. Garrity JT, et al. Improved osteochondral allograft preservation using serum-free media at body temperature. *Am J Sports Med* 2012
5. Gregory MH, et al. A review of translational animal models for knee osteoarthritis. *Arthritis* 2012
6. O'Connell GD, et al. Toward engineering a biologic joint replacement. *J Knee Surg* 2012
7. Stoker AM, et al. Improved preservation of fresh osteochondral allografts for clinical use. *J Knee Surg* 2012
8. Stylianou AP, et al. Development and validation of a multi-body model of the canine stifle joint. *Comp Meth Biomech, Biomed Eng* 2012
9. Smith MJ, et al. Novel bone-tendon allograft for repair of chronic large rotator cuff tears using a canine model. *Arthroscopy* 2012
10. Delaney LE, Esquivel AA, Kuroki K, Laughlin MH. Exercise training improves vasoreactivity in the knee artery. *Int J Sports Med* 2011
11. Garner BC, et al. Using animal models in osteoarthritis biomarker research. *J Knee Surg* 2011
12. Fox DB, et al. Cell-based meniscal engineering: A case for synoviocytes. *Clin Orthop Rel Res* 2011