



Spring Quarter 5:2;2011

e-news



Comparative Orthopaedic Lab

"Finding a joint solution"

www.columc.missouri.edu

Current Projects

- Relationship of Vascular Disease with OA
- Intra-Articular Therapy for OA
- Tissue Engineered Meniscal Scaffolds
- Optimizing Allograft Tissue Preservation
- Pedicle Screw Fixation in Osteoporosis
- Clinical Evaluations of ACP
- Biomarkers for Osteoarthritis
- Multiscale Modeling of OA
- Biomarkers in Physical Therapy
- On-field Diagnosis of Meniscal Pathology
- Comparison of Suture Anchors
- Biologic Total Joint Arthroplasty

Last quarter's "top 5"

1. Dr. Prakash Jayabalan won both the RCAF and Phi Zeta Research competitions!
2. The COL received grants for five new projects in 2011!
3. The COL had 19 posters & presentations at the 2011 ORS Conference!
4. The COL received the best poster award at the 2011 VOS Conference!
5. COL surgeons worked with Dr. Suedmeyer (KC Zoo) to repair a severe fracture in a coyote!

11th Annual Comparative Orthopaedics Day

Friday, April 22nd, 2011 at The Missouri Orthopaedic Institute

This year, we are honored to welcome **Dr. James Ogilvie** to deliver the keynote addresses for the 11th Annual Comparative Orthopaedics Day. Dr. James Ogilvie is a clinician-scientist *extraordinaire* in spine. He truly spans the gap from the molecule to the "real world" patient through his outstanding work in areas as broad as inheritance and genetic testing for scoliosis to minimally invasive techniques for anterior spine fusion surgery. He has included microarrays, animal models, and biomechanics in the broad spectrum of research techniques he is using to find answers for our toughest clinical problems. Dr. Ogilvie did part of his training at The US Air Force Academy, was a Commander in The US Naval Reserves, and is currently a Professor of Orthopaedic Spine Surgery at the University of Utah. He provides an excellent example of an extremely accomplished surgeon who is utilizing comparative and translational orthopaedics to change science and medicine. We are thrilled to have Dr. Ogilvie as our 2011 Littlejohn Family Keynote Lecturer for the 11th Annual Comparative Orthopaedics Day event!



Sponsored by The Littlejohn Family Endowment

Recent Pubs

1. Franklin SF, Cook JL. What is the evidence? Total hip replacement vs femoral head and neck excision. JAVMA 2011
2. Fox DB, et al. Elbow pain in a young English Bulldog. NAVC Clin Brief 2011
3. Cook JL, et al. Proposed definitions and criteria for reporting time frame, outcome, and complications for orthopaedic studies. Vet Surg 2010
4. Lee CH, Cook JL, et al. Regeneration of articular surface of a synovial joint by cell homing. The Lancet 2010
5. Kuroki K, et al. Expression of Toll-like receptors 2 and 4 in stifle joint synovial tissues of dogs with or without OA. Am J Vet Res 2010
6. Cook JL, et al. The OARSI histopathology initiative – Histopathological assessments of osteoarthritis in the dog. OA & Cartilage 2010
7. Breshears LA, et al. The effect of uniaxial cyclic tensile load on gene expression in canine CCL ligamentocytes. Vet Surg 2010
8. Arnoczky SP, Cook JL, et al. Translational models for studying meniscal repair and replacement. Tissue Eng 2010
9. Bal BS, et al. In vivo outcomes of tissue engineered osteochondral grafts. J Biomed Mater Res 2010
10. Fox DB, et al. Effects of growth factors on synovial fibroblasts seeded on synthetic scaffolds for meniscal engineering. Res Vet Sci. 2010