Fall Quarter 9:4;2015

e-news

Comparative Orthopaedic Lab

"Finding a joint solution"

http://www.columc.com/

Current Projects

- Sensory Function of the ACL
- BioCartilage versus Marrow Stimulation
- Subchondroplasty for PTOA
- Validation of ECHON Osteochondral Implants
- Return-to-Sport after ACL Reconstruction
- Bioreactor for Disc Disease Modeling
- BMC for Enhancing OCAs
- Meniscal Tissue Engineering
- Early Diagnosis of Hip Dysplasia
- Multi-Ligament Knee Reconstruction
- Early Treatment for ACL Injuries
- Biomarkers for Osteoarthritis

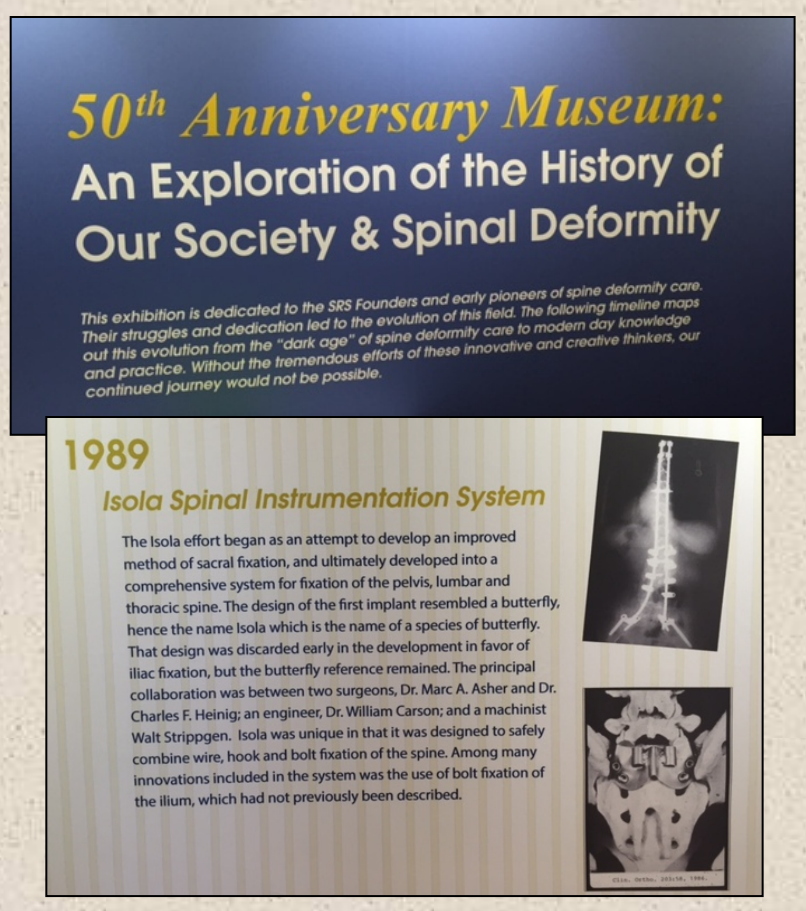
Last quarter's "top 5"

1. Mizzou BioJoint Center officially opens – www.muhealth.org/services/orthopaedics/mizzou-biojoint-center/
2. $1.1M Department of Defense funded project on biologic joint replacement initiated
3. Dr. Jimi Cook was featured on KC Live and FOX2 morning shows discussing Joint Health
4. COL Team submits 25 abstracts for 2016 ORS Annual Conference
5. Annual COL Awards presented to Nikki Werner, Andrew Polk, and Swithin Razu

COL's Dr. Bill Carson Recognized as a Pioneer in Treatment of Spinal Deformity

Dr. Bill Carson is a pioneer in engineering - actually helping to create what is now termed "biomedical engineering" by partnering with surgeons in human and veterinary orthopaedics to find solutions to the "mechanical" problems of bones and joints by applying the art and science of engineering.

Dr. Carson has led efforts resulting in numerous innovations in orthopaedics, including treatment of spinal deformities for which he was recognized by the 50th Annual Meeting of the Scoliosis Research Society[1]s walking timeline of landmark work in this area. Dr. Carson and his wife Toni have also been instrumental in the development and progress of the COL and our Biomechanics and Bioengineering Laboratory is named in their honor.



Recent Pubs

1. Cook JL, et al. A canine hybrid double-bundle model for study of arthroscopic ACL reconstruction. J Orthop Res 2015
2. Stannard JP, et al. Repair or reconstruction in acute posterolateral instability of the knee. J Knee Surg 2015
3. Nover AB, et al. Long term storage and preservation of tissue engineered articular cartilage. J Orthop Res 2015
4. Franklin SP, et al. Characteristics of canine PRP prepared with 5 commercially available systems. Am J Vet Res 2015
5. Brimmo OB, et al. Sonographic diagnosis of an acute lateral meniscal tear in a division 1 football player. J Knee Surg Rep 2015
6. Monibi FA, et al. Identification of synovial fluid biomarkers for knee OA and correlation with radiographic assessment. J Knee Surg 2015
7. Sherman SL, et al. In vivo toxicity of local anesthetics and corticosteroids on chondrocytes and synoviocytes. Cartilage 2015
8. Brimmo OB, et al. Development of a novel canine model for posttraumatic OA of the knee. J Knee Surg 2015
9. Bozynski CC, et al. Evaluation of partial transection versus synovial debridement of the ACL as novel canine models. J Knee Surg 2015