



Thompson Laboratory for Regenerative Orthopaedics

“Discovering Better”

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<http://thompsonlab.missouri.edu>

Current Projects

- Fracture Risk in Adolescence
- Mizzou BioJoint® Outcomes & Cost-Efficacy
- Mizzou Knee Arthrometer Testing System
- BioJoint® ACL Reconstruction
- Bone Quality after Bariatric Surgery
- Partial Thickness Rotator Cuff Tear Repair
- Updating Skeletal Maturity Methods
- Canine Total Hip Arthroplasty
- BioJoint® Flex Knee Rehab System
- Motion Analysis for Risk of Injury
- Biomarkers for IVD Disease
- Sex Differences in ACL Graft Healing

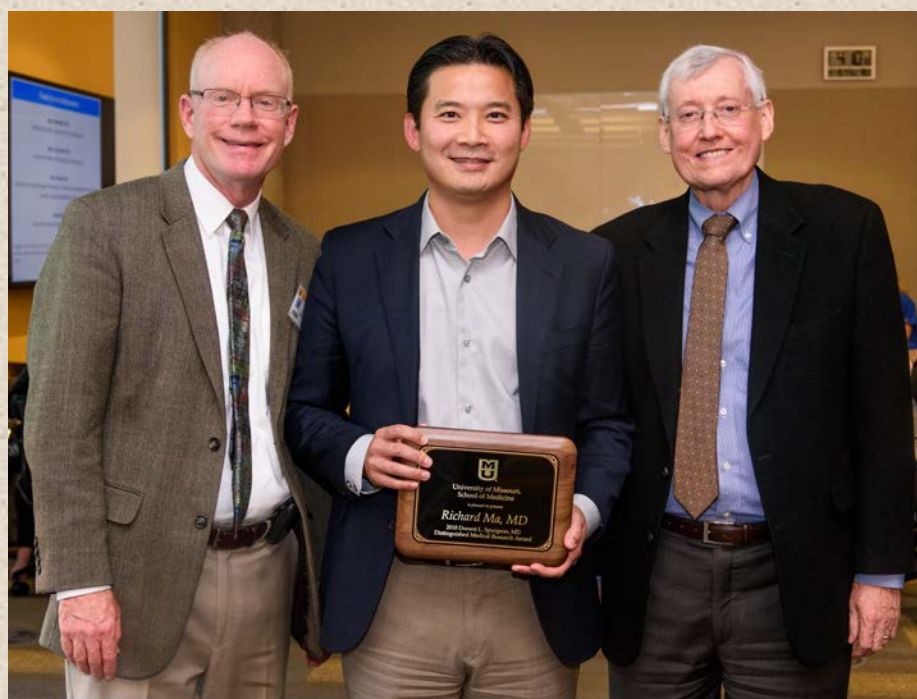
Last quarter’s “top 5”

1. Dr. Richard Ma receives Spurgeon Distinguished Medical Research Award
2. Dr. Dana Duren’s landmark study on skeletal maturity receives international recognition
3. International Joint Preservation Conference honors Mizzou BioJoint with Research Award
4. Lisa Royse and Alyssa Shaw receive graduate degrees
5. Dr. Mauricio Kfuri publishes landmark study on tibial plateau fracture classification

Dr. Richard Ma Receives Spurgeon Research Award

Dr. Richard Ma is the 2018 recipient of the MU School of Medicine’s Dorsett L. Spurgeon MD Distinguished Medical Research Award for his outstanding work as a clinician-scientist.

Dr. Ma’s research focus is primarily in sports medicine in the areas of anterior cruciate ligament (ACL) reconstruction, elbow and shoulder surgery, and arthroscopic surgery.



Dr. Ma leads the ACL research program in the TLRO with a current focus of understanding

how the external mechanical environment affects healing of ACL grafts, as well as determining how the biologic responses of articular tissues can be harnessed to reduce failure and to improve outcomes for patients.

Congratulations on this well deserved honor!

Recent Pubs

1. Kfuri M and Schatzker J. Revisiting the Schatzker classification of tibial plateau fractures. *Injury* 2018
2. Keeney JA, et al. Incisional negative pressure wound therapy devices following hip and knee arthroplasty. *J Arthroplasty* 2019
3. Oladeji LO, et al. Cooled radiofrequency ablation for treatment of OA-related knee pain. *J Knee Surg* 2019
4. Cook JL and Stannard JP. Current use of biologics in clinical orthopaedics. *GCMS J* 2018
5. Boeyer ME, et al. Early maturity as the new normal: A century-long study of bone age. *Clin Orthop Rel Res* 2018
6. Tarafder S, et al. Engineered healing of avascular meniscus tears by stem cell recruitment. *Nature Sci Reports* 2018
7. Huckins GL, et al. Osteochondral autograft transfer for treatment of OCD in two snow leopards. *J Zoo Wildlife Med* 2018
8. Brimmo OA, et al. Subchondroplasty for treatment of post-traumatic bone marrow lesions in a preclinical canine model. *J Orthop Res* 2018
9. Cook AE, et al. Metabolic responses of meniscal explants to injury and inflammation ex vivo. *J Orthop Res* 2018
10. Smith PA, et al. Intra-articular biocompatibility of suture tape in a canine ACL model. *J Knee Surg* 2018
11. Stoker AM, et al. Chondrocyte viability at time of transplantation for OCAs preserved by MOPS vs standard protocol. *J Knee Surg* 2018